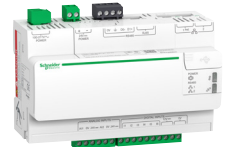


Schneider Electric

Energy and power meters catalog
for Panel Builders



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Schneider
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Energy and power meters catalog for panel builders

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Clicking on a
Commercial Reference Number
or scanning the product's
QR Code
links you to further product information on
www.schneider-electric.com

Why Panel Builders Choose Schneider Electric?



Schneider Electric is the global specialist in energy management and as such it has the most complete power motoring product line, going from simple indicators (analog meters) and CTs, to world class accurate energy meters and powerful compact power meters. These proven products come with multiple options to satisfy any requirement.

Schneider Electric products are safe and reliable. We comply with the most stringent standards, including IEC, MID, UL, etc., and we thoroughly test all products with third-party laboratories. This gives our partners the peace of mind and the confidence that they are maintaining a good reputation while delivering the best value in equipment and service to their customers.

Our products are simple to install, configure, and use. This saves our partners time and money and lets them deliver the best solutions in a timely and cost-effective manner.

Whatever the size or type of application, the PowerLogic™ product line is an integral part of smart panels.

Panorama of the PowerLogic range

Current transformers



Panel Instruments



CTs Ip / 5 A
current transformer

Name	iAMP	iVLT	AMP/VLT	iFRE	iCH/iCI
Function	ammeter, voltmeter		ammeter, voltmeter	frequency meter	hour counter pulse counter

Installation

- insulated cable, diameter 21 to 35 mm, through transformer
- busbar through transformer
- cable connections

Applications

Panel instrumentation

Panel instrumentation	I / U	I / U	I / U	F	hours/pulses
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Energy efficiency & cost

Sub-billing & cost allocation					
Demand & load management					
Billing analysis					

Power availability & reliability

Compliance monitoring					
Sag/swell, transient					
Harmonics					

Revenue metering

Revenue meter					
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Characteristics

- transformation ratio: 40/5 A to 6000/5 A
- accuracy: class 0.5 to 3
- maximum rated operational voltage: 720 V AC
- tropicalised

Characteristics

Measurement accuracy	Class 1.5	± 0.5 % ± 1 digit	Class 1.5	± 0.5 % ± 1 digit	
Installation	DIN rail 4 x 18 mm modules	DIN rail 2 x 18 mm modules	flush mounted 72 x 72 mm 96 x 96 mm	DIN rail 2 x 18 mm modules	iCI, iCH: DIN rail 2 x 18 mm modules CH: flush mount
Measurement	iAMP: 30 A direct or external CT	iVLT: 600 V AC direct or external VT	VLT: 500 V AC direct or external VT AMP: external CT	400 V AC direct	
Communication ports					
Inputs / Outputs					
Memory capacity					

Panorama of the PowerLogic range (cont'd)

Basic energy metering



Name	iEM2000/ iEM2010/ iEM2000T/ iEM2100	iEM3000 Series	PM3000 Series	PM5350 Series
Function	kilowatt-hour meters	kilowatt-hour meters	metering & sub-metering Class 0.5S IEC 62053-22 Class 1 IEC 62053-21 Class 2IEC 62053-23	Class 0.5S IEC 62053-22 Class IEC 62053-23 Class IEC 61557-12

Applications

Panel instrumentation

Panel instrumentation	E	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)
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Energy efficiency and cost

Sub-billing & cost allocation				
Demand & load management				
Billing analysis				

Power availability & reliability

Compliance monitoring				
Dip/swell, transient				
Harmonics				

Revenue metering

Revenue meter				
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Characteristics

Measurement accuracy	Class 0.5S / Class 1	Class 0.5S / Class 1	Class 0.5	Class 0.5
Installation	DIN rail 1, 2, 5, or 7 x 18 mm modules	DIN rail	DIN rail	Flush mount 96 mm x 96 mm
Voltage measurement	400 V AC direct	50 V to 330 V (Ph-N) 80 V to 570 V (Ph-Ph) up to 1MV AC (ext VT)	50 V to 330 V AC (Ph-N) 80 V to 570 V AC (Ph-Ph) up to 1MV AC (ext VT)	PM53xx 20-400 V L-N 20-690 V L-L
Current measurement	40 to 125 A direct or external CT	external CT	external CT	external CT
Communication ports		1	1	1
Inputs / Outputs		2 I/O	2 I/O	2 I/O
Memory capacity				

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Panorama of the PowerLogic range (cont'd)

Basic multi-function (contd) Advanced metering



Name	PM5000 Series	PM8000 Series	ION9000
Function	metering & sub-metering Class 0.5S IEC 62053-22 Class 0.2S (PM55xx) IEC 62053-22 Class 1/2 IEC 62053-24 IEC 61557-12	energy & basic power quality meter IEC 62053-22 Class 0.2S ANSI C12.20 Class 0.2 IEC 61000-4-30 Class S IEC 62586-2 IEC 61557-12 PMD/Sx/K70/0.2 IEC / UL 61010-1	energy & advanced power quality meter IEC 62053-22 Class 0.1S ANSI C12.20 Class 0.1 IEC 61000-4-30 Class A IEC 62586-1 / -2 IEC 61557-12 PMD/Sx/K70/0.2 IEC / UL 61010-1

Applications

Panel instrumentation

Panel instrumentation	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E, THD, Min/Max, harm, alarm, I/O (I, U unbalance, demand, clock/cal, dip/swell)	I, U, F, P, Q, S, PF, E, THD, Min/Max, harm, alarm, I/O (I, U unbalance, demand, clock/cal, dip/swell, transients, flicker, RVC, mains signalling, 1/2 cycle RMS)
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Energy efficiency and cost

Sub-billing and cost allocation			
Demand and load management			
Billing analysis			

Power availability & reliability

Harmonics			
Dip/swell, transient		dip/swell	
Compliance monitoring			

Revenue metering

Revenue metering			
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Characteristics

Measurement accuracy (active energy)	Class 0.2S (PM55xx) Class 0.5S	IEC 62053-22 Class 0.2S ANSI C12.20 Class 0.2	IEC 62053-22 Class 0.1S ANSI C12.20 Class 0.1
Installation	Flush & DIN 96 mm x 96 mm	Flush & DIN 96 mm x 96 mm	Flush & DIN 160 mm x 160 mm Display 96 mm or 197 mm x 175 mm
Voltage measurement	20-400 V L-N 20-690 V L-L (PM55xx) 20-277 V L-N 35-690 V L-L (PM51/53xx)	57-400 V AC L-N 3P (100-690 V AC L-L)	57-400 V L-N AC or 100-690 V L-L AC
Current measurement	external CT	external CT	external CT
Communication ports	2	3	4
Inputs / Outputs	1DO for PM51xx 4/6 I/O PM53xx based on model 6 I/O for PM55xx	up to 27 DI, 9 DO up to 16 AI, 8 AO	up to 32 DI, 4 DO, 10 RO (relay) up to 16 AI, 8 AO
Memory capacity	256 KB 1.1 MB (PM55xx)	512 MB	2 GB

page
page
page

Panorama of the PowerLogic range (cont'd)

Advanced utility metering



Name	ION7400	ION8650	ION8800
Function	energy & basic power quality meter IEC 61557-12 IEC 53-22 IEC 61000-4-30 Class S IEC 62586 ANSI C12.20 Class 0.2 PMD/Sx/K70/0.2	energy & power quality meter IEC 62052-11 IEC 62053-22/23 Class 0.2S IEC 61000-4-30 Class A	energy & power quality meter IEC 62052-11 IEC 62053-22/23 Class 0.2S IEC 61000-4-30
Applications	<p>Panel instrumentation</p> <p>Panel instrumentation</p>		
Energy efficiency & cost	I, U, F, P, Q, S, PF, E, THD, Min/Max, harm, alarm, I/O (I, U unbalance, demand, clock/cal)	I, U, F, P, Q, S, PF, E (demand, minimum and maximum values)	I, U, F, P, Q, S, PF, E (demand, minimum and maximum values)
Power availability & reliability	dip/swell		
Revenue metering			
Characteristics	<p>Measurement accuracy (active energy) IEC 61053-22 Class 0.2S ANSI 12.20 Class 0.2S</p> <p>Installation Flush & DIN rail mount 96 mm x 96 mm</p> <p>Voltage measurement 57-400 V AC L-N 3P (100-690 V AC L-L)</p> <p>Current measurement external CT</p> <p>Communication ports 2</p> <p>Inputs / Outputs up to 27 DI, 9 DO up to 16 AI, 8 AO</p> <p>Memory capacity 512 MB</p>	<p>Class 0.2S</p> <p>ANSI socket mount 9S, 35S, 36S, 39S and 76S; FT21 switchboard case</p> <p>57-277 V L-N AC (9S, 36S); 120-480 V L-L AC (35S)</p> <p>external CT</p> <p>5</p> <p>up to 22 I/O</p> <p>10 MB 4 MB 2 MB</p>	<p>Class 0.2S</p> <p>DIN 43862 rack</p> <p>57-288 V L-N AC or 99-500 V L-L AC</p> <p>external CT</p> <p>5</p> <p>up to 16 I/O</p> <p>up to 10 MB</p>
	page	page	page

Panorama of the PowerLogic range (cont'd)

Multi-circuit metering



Name	BCPM	EM4000	EM4800	EM4900
Function	branch circuit monitor IEC 61036 Class 1	multi-circuit energy meter Class 0.5 ANSI C12.1, C12.20 Class 0.5S IEC 62053-22	multi-circuit energy meter Class 0.5 ANSI C12.1, C12.20 Class 0.5S IEC 62053-22	multi-circuit energy meter Class 0.5 ANSI C12.1, C12.20 Class 0.5S IEC 62

Applications

Panel instrumentation

Panel instrumentation	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)
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Energy efficiency and cost

Sub-billing and cost allocation				
Demand and load management				
Billing analysis				

Power availability and reliability

Compliance monitoring				
Sag/swell, transient				
Harmonics				

Revenue metering

Revenue meter				
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Characteristics

Measurement accuracy	Class 1 (mains active energy)	Class 0.5S	Class 0.5S	Class 0.5S
Installation	Panel or enclosure	Panel or enclosure	Panel or enclosure	Panel or enclosure
Voltage measurement	90 – 277 V L-N voltage Inputs	80 - 480 V AC L-L without PTs, Up to 999 kV with external PTs	80 - 480 V AC L-L without PTs, Up to 999 kV with external PTs	150 – 480 V AC L-L without PTs, Up to 999 kV with external PTs
Current measurement	CT strips for branch circuits and external CTs for mains	Split- or solid-core CTs	Split- or solid-core CTs	Split- or solid-core CTs
Communication ports	1 for main	2	2	2
Inputs / Outputs		2	2	2
Memory capacity				

page	page	page	page
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Panorama of the PowerLogic range (cont'd)

Retrofit & wireless products



Name	EM3500	EM4200
Function	DIN rail power & energy meter ANSI 12.20 0.2 % accuracy, IEC 62053-22 Class 0.2S for EM35xx models, ANSI C12.20 0.5 % accuracy, IEC 62053-22 Class 0.2S for EM35xxA models	power & energy meter ANSI C12.20 0.2 % IEC 62053-22 Class 0.2S

Applications

Panel instrumentation

Panel instrumentation	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)
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Energy efficiency and cost

Sub-billing and cost allocation		
Demand and load management		
Billing analysis		

Power availability and reliability

Compliance monitoring		
Sag/swell, transient		
Harmonics		

Revenue metering

Revenue meter		
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Characteristics

Measurement accuracy	Class 1 (mains active energy)	ANSI C12.20 Class 0.2S IEC 62053-22 Class 0.2S
Installation	Panel or enclosure	DIN or screw, clip-on or hook
Voltage measurement	UL: 90 V L-N to 600 V L-L; CE: 90 V L-N to 300 V L	890 - 480 V AC L-L
Current measurement	EM35xxA models work exclusively with Rogowski coil CTs.	5 A to 5000 A
Communication ports	1 for main	2
Inputs/Outputs	(see Datasheet)	
Memory capacity		

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Panorama of the PowerLogic range (cont'd)

Communications & gateways



Insulation monitoring Devices



Monitoring software



Name	Link150	Com'X 210 Com'X 510
Function	Modbus Serial to Modbus TCP/IP protocol gateway	Modbus gateway plus Energy Server and Cloud connector

Vigilohm™ Insulation monitoring devices	EcoStruxure™ Energy & power management software
Insulation monitoring for IT / Ungrounded networks	Power management, network protection and control

Features

RS-485 / Ethernet gateway	Ethernet Gateway	Ethernet Gateway
Devices supported	All Modbus devices	100+ known Schneider Electric devices and the ability to create custom Modbus models. EM3000 Series, iEM3000 Series, Acti9 Smartlink Masterpact, PM5000 Series, Compact NSX, iEM1, iEM2000 series, PM3000 Series, PM5350, PM5000, PM8000, ION9000, CM4000
Web server with standard HTML pages	Configuration only	Com'X 510 - full support Com'X 210 - config. only
Web server with custom HTML pages		Custom web page support
Real time data		Available on Com'X 510
Historical data		Com'X 510 onboard storage Com'X 210 - publish to database server
Automatic notification		Event Notification to FI
Alarm and event logs		
Waveform display		
Manual/automatic reports		

RS-485	Insulation Monitors: IM9, IM9-OL, IM10, IM20 IM10-H, IM20-H, IM400 series IM400THR Insulation Fault Locators: IFL 12, IFL 12C, IFL 12MC, IFL 12H Accessories: Including voltage adaptors, cardews, toroids	EcoStruxure™ Power Monitoring Expert, EcoStruxure™ Power SCADA Operation 100+ Schneider Electric devices
	Available on product supervision e.g.PME, Com'X 510 Available on product supervision e.g.PME, Com'X 510	
	Available in supervision PME Available in supervision PME	

Characteristics

Ethernet ports	2 (switch mode only)	2
Modbus TCP/IP protocol		
RS-485 (2-wire / 4-wire) ports, Modbus protocol	2w/4w - 1 (rj45)	1
Number of devices connected directly	32	64 devices/32 max Modbus, 2 analog sensors
RS-232 configuration ports	1	
Miscellaneous	Serial line to Ethernet connectivity - serial or Ethernet master	Connectivity: WiFi, Ethernet, Zigbee, GPRS, + 3G
Installation	9 DIN rail	DIN rail

An IT earthing system -also called ungrounded system- allows the network to operate even in the presence of an insulation fault, without endangering people or property. Required as part of the IT network, an Insulation Monitoring Device (IMD) detects the insulation fault and locates it so it can be repaired.

EcoStruxure™ is an architecture of interoperable, and scalable supervisory software dedicated to power monitoring that enables you to maximize operational efficiency, optimize power distribution systems, and improve bottom-line performance.

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page page

Current transformers

Schneider Electric is the global specialist in energy management with the most complete power monitoring product line. Current Transformers are essential components designed to be used with Schneider Electric's extensive power monitoring product portfolio. From simple energy meters to world class power quality meters, these proven products satisfy any requirement.



056854NMD-2
056852NMD-2
PB100316-35
PB119864
PB119870



METSECT5CC04



METSECT5MB025



METSECT5CYL1

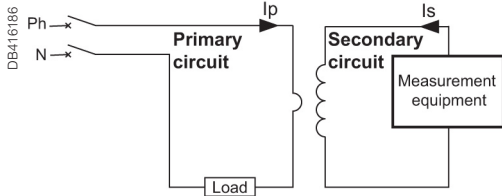


METSECT5GD025



METSECT5HA025

Ip/5 A ratio



Application diagram of a CT.

The Ip/5 A ratio current transformer delivers at the secondary a current (Is) of 0 to 5 A that is proportional to the current measured at the primary (Ip). This allows them to be used in combination with measurement equipment:

- Ammeters.
- Kilowatt-hour meters.
- Measurement units.
- Control relays.
- etc.

When the primary is energized, the measurement equipment nearly acts as a short circuit which keeps the secondary voltage very low. This voltage will increase significantly if the short circuit is removed.

CT selection - conductor rating aspects

The choice depends on the conductor profile and the maximum intensity of the primary circuit.

CT with let-through primary

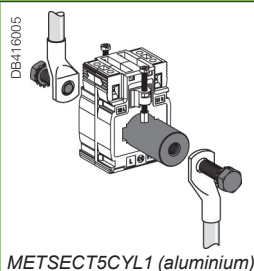
Conductor type	Cable	Mixed, bars or cables	Vertical or horizontal bars	Vertical bars
Suggested Current Transformer and mounting	DB415986	DB415920	DB415988	DB415989
Ratings (A)	40 to 250	150 to 800	200 to 4000	5000 to 6000
CT internal	Type C	Type M	Type D ⁽¹⁾	Type V
	FFC	FFMA FFMD	FFD	FFV2 VV

(1) Two secondary connectors (parallel internal wiring - only one secondary winding) for easier cable access. 1 lateral + 1 on one extremity. Warning: only one must be used at a time.

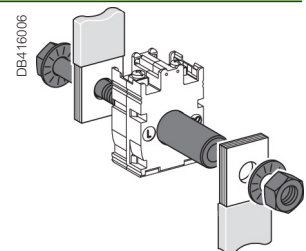
Specific mounting: use of cylinder

A cylindrical metallic spacer ensures a proper CT positioning when the conductor or the CT cannot be positioned perpendicular. Secured by bolt + nut.

CT with primary connection by screw and nut (example: use of cylinder with bar or cable)



METSECT5CYL1 (aluminium)



16550 (brass)

NOTE: See appropriate Installation Guide for these products.

CT selection - Electrical aspect Ip/5 A

- We recommend that you choose the ratio immediately higher than the maximum measured current (In).
Example: In = 1103 A; ratio chosen = 1250/5.
- For small ratings: From 40/5 to 75/5 and for an application with digital devices, we recommend that you choose a higher rating, for example 100/5. This is because small ratings are less accurate and the 40 A measurement, for example, will be more accurate with a 100/5 CT than with a 40/5 CT.
- Specific case of the motor starter: to measure motor starter current, you must choose a CT with primary current $I_p = I_d/2$ (I_d = motor starting current).

Validation of measurement solution according to accuracy class

It consists in controlling the right adaptation of the CT on the accuracy class aspect. The accuracy class is specified in the project. The total dissipated power of the measurement circuit (meter + cables) should not be superior to the specified limit of the CT. This limit is for different standard classes. If necessary, the choice of the cable section, the CT or meter should be modified to fit the requirement.

Copper cable cross-section (mm ²)	Power per doubled meter at 20 °C (VA)	Schneider Electric device	Consumption of the current input (VA)
1	1	Ammeter 72 x 72 / 96 x 96	1.1
1.5	0.685	Analog ammeter	1.1
2.5	0.41	Digital ammeter	0.3
4	0.254	PM8000	0.15
6	0.169	PM3000	0.3
10	0.0975	PM5000	
16	0.062	iEM3000	

For each temperature variation per 10 °C bracket, the power drawn up by the cables increases by 4 %.

Application example

Project specification: **200 A**, in **Ø27** mm cable, accuracy class 1.
Our choice is **METSECT5MA020**.

For this CT selected on the chart (next page), the max acceptable power is **7 VA** (for "Accuracy class 1" which is specified in the project).

Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial reference number	Accuracy class		
					0.5	1	3
					Max. power (VA)		
			150	METSECT5MA015	3	4	-
			200	METSECT5MA020	4	7	-
			250	METSECT5MA025	6	8	-
			300	METSECT5MA030	8	10	-
			400	METSECT5MA040	10	12	-

Control of the conformity of the measurement chain:

- PM3000 multi-meter: 0.3 VA.
- 4 meters of 2.5 mm², doubled wires: 0.41 x 4 = 1.64 VA.

Total: 0.3 + 1.64 = 1.94 VA (< 7 VA)

Conclusion: this CT is well adapted as the accuracy class will be even better than 1.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA, CSA Z462 or applicable local standards.
- Turn off all power supplying this device and the equipment in which it is installed before working on the device or equipment.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Treat I/O wiring connected to multiple devices as hazardous live until determined otherwise.
- Do not exceed the device's ratings for maximum limits.
- Do not use this device for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Disconnect all the device's input and output wires before performing dielectric (hi-pot) or Megger testing.

CT DAMAGE

- Never open circuit a current transformer (CT)
- Do not open the CT case.
- Do not attempt to repair any components of the CT.

Failure to follow these instructions will result in death or serious injury.

PB118085

Presentation of commercial reference numbers

MET SE CT **X** **XX** **XXX**

1 = 1 Amp
5 = 5 Amp
R = Rogowski

Last 3 digits = primary rating/10
2 letters = Form Factor

Examples:

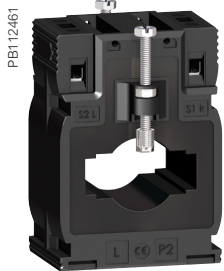
METSECT5CC008 = 5 A secondary, Cables only, 75 A primary

METSECT5MC080 = 5 A secondary, mixed for cables and bars, 800 A primary

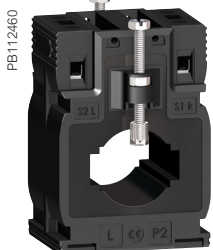
METSECTR30500 = Rogowski CT, 300 mm length, 96 mm diameter 50 A to 5000 A



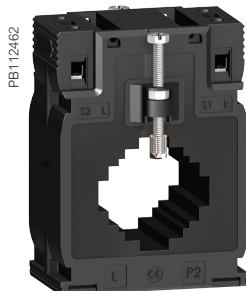
METSECT5CC●●●



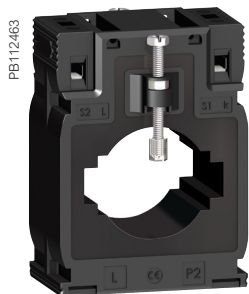
METSECT5MB●●●



METSECT5MA●●●



METSECT5MC●●●

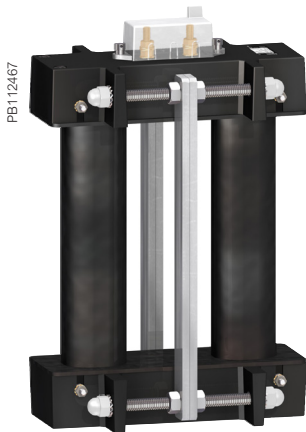


METSECT5MD●●●

Type C - solid core current transformer (cable profile)					
Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial ref number	
CC					
FF/CC		Ø21	-	40	METSECT5CC004
				50	METSECT5CC005
				60	METSECT5CC006
				75	METSECT5CC008
				100	METSECT5CC010
				125	METSECT5CC013
				150	METSECT5CC015
				200	METSECT5CC020
	250	METSECT5CC025			

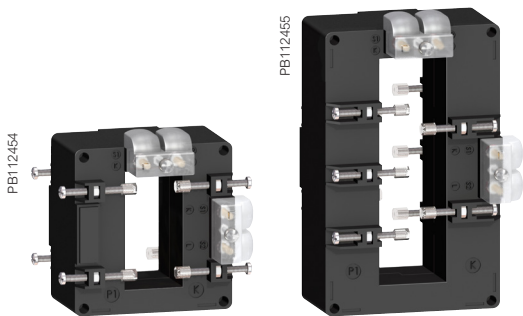
Type M - current transformers (mixed: cable/bar profile)					
MB					
FF/MB		Ø26	12 x 40	250	METSECT5MB025
			15 x 32	300	METSECT5MB030
				400	METSECT5MB040
MA					
FF/MA		Ø27	10 x 32	150	METSECT5MA015
			15 x 25	200	METSECT5MA020
				250	METSECT5MA025
				300	METSECT5MA030
				400	METSECT5MA040
MC					
FF/MC		Ø32	10 x 40	250	METSECT5MC025
			20 x 32	300	METSECT5MC030
			25 x 25	400	METSECT5MC040
				500	METSECT5MC050
				600	METSECT5MC060
				800	METSECT5MC080
MD					
FF/MD		Ø40	12 x 50	500	METSECT5MD050
			20 x 40	600	METSECT5MD060
				800	METSECT5MD080

See your Schneider Electric representative for complete ordering information.



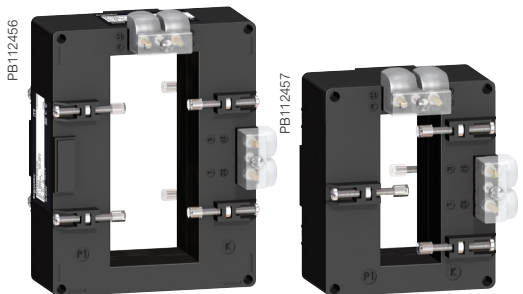
METSECT5VV●●●

Type V - current transformers (vertical bar profile)				
Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial reference number
FF V2	-	55 x 165	5000	METSECT5VV500 ★
			6000	METSECT5VV600 ★



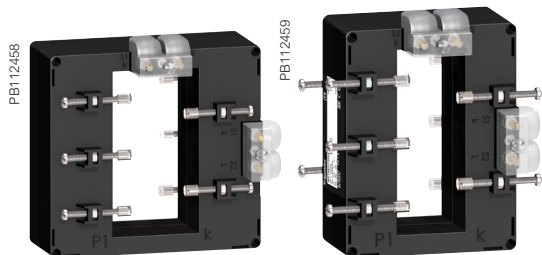
METSECT5DA●●●

METSECT5DB●●●



METSECT5DC●●●

METSECT5DD●●●



METSECT5DE●●●

METSECT5DH●●●

Type D - current transformers (vertical or horizontal bar - dual secondary terminals)				
DA				
		32 x 65	400	METSECT5DA040
			500	METSECT5DA050
			600	METSECT5DA060
			800	METSECT5DA080
			1000	METSECT5DA100
			1250	METSECT5DA125 ★
		1500	METSECT5DA150 ★	
DB				
	-	38 x 127	1000	METSECT5DB100
			1250	METSECT5DB125 ★
			1500	METSECT5DB150 ★
			2000	METSECT5DB200 ★
			2500	METSECT5DB250 ★
			3000	METSECT5DB300 ★
DC				
	-	52 x 127	2000	METSECT5DC200 ★
			2500	METSECT5DC250 ★
			3000	METSECT5DC300 ★
			4000	METSECT5DC400 ★
DD				
	-	34 x 84	1000	METSECT5DD100
			1250	METSECT5DD125 ★
			1500	METSECT5DD150 ★
DE				
	-	54 x 102	1000	METSECT5DE100
			1250	METSECT5DE125 ★
			1500	METSECT5DE150 ★
			2000	METSECT5DE200 ★
DH				
	-	38 x 102	1250	METSECT5DH125 ★
			1500	METSECT5DH150 ★
			2000	METSECT5DH200 ★

★ Operating temperature: -25°C to 50°C

See your Schneider Electric representative for complete ordering information.

Type V - solid core current transformers (vertical bar profile)

Internal profile type	Accuracy class			Overall dimensions (refer to drawing pages for details) W x H x D (mm)	Fastening mode	Accessories	
	0.5	1	3			Cylinder	Sealable cover
Max. power (VA)							
VV							
FFV2	Dimension (mm)			175 x 273.5 x 110	■ Insulated locking screw.	-	Included
	60	-	-				
	70	-	-				

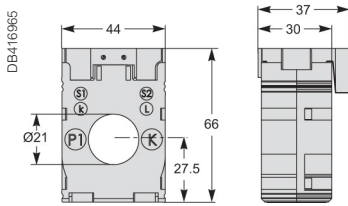
Type D - solid core current transformers (vertical or horizontal bar - dual secondary terminals)

DA				Dimension (mm)		Fastening mode	Accessories
	4	8	-	90 x 94 x 90	■ Insulated locking screw.		
	8	10	-				
	8	12	-				
	12	15	-				
	15	20	-				
	15	20	-				
	20	25	-				
DB							
	6	10	-	99 x 160 x 87	■ Insulated locking screw.	-	Included
	8	12	-				
	10	15	-				
	15	20	-				
	20	25	-				
	25	30	-				
DC							
	25	30	-	125 x 160 x 87	■ Insulated locking screw.	-	Included
	30	50	-				
	30	50	-				
	30	50	-				
DD							
	10	15	-	96 x 116 x 87	■ Insulated locking screw.	-	Included
	12	15	-				
	15	20	-				
DE							
	12	15	-	135 x 129 x 85	■ Insulated locking screw.	-	Included
	15	20	-				
	20	25	-				
	20	25	-				
DH							
	12	15	-	98 x 129 x 75	■ Insulated locking screw.	-	Included
	12	15	-				
	20	25	-				

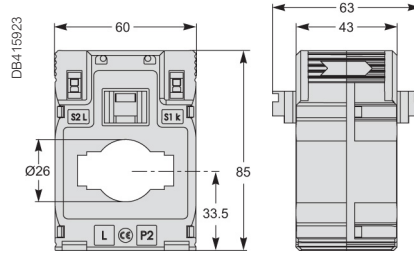
★ Operating temperature: -25 °C to 50 °C
 See your Schneider Electric representative for complete ordering information.

Solid core CT dimensions

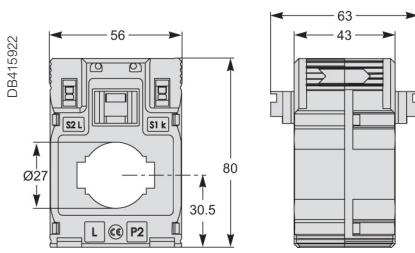
CC internal profile type



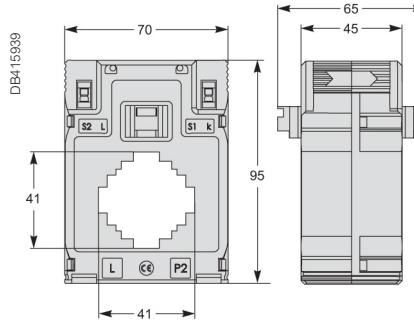
MB internal profile type



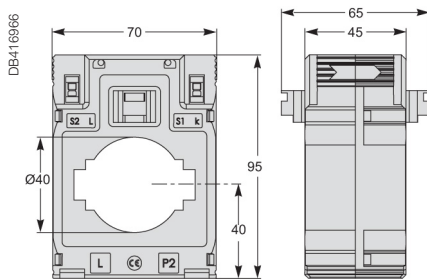
MA internal profile type



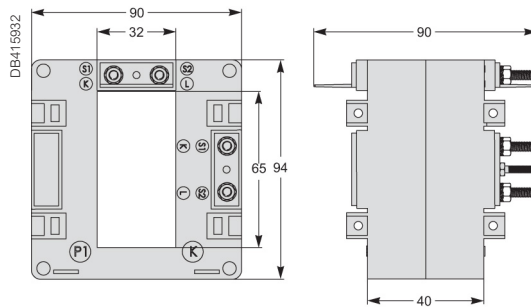
MC internal profile type



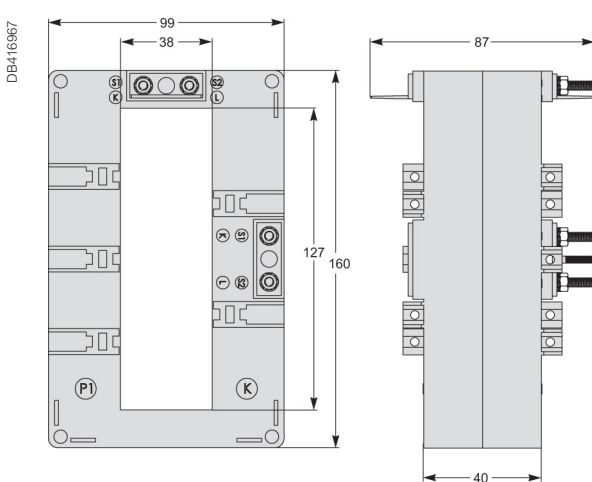
MD internal profile type



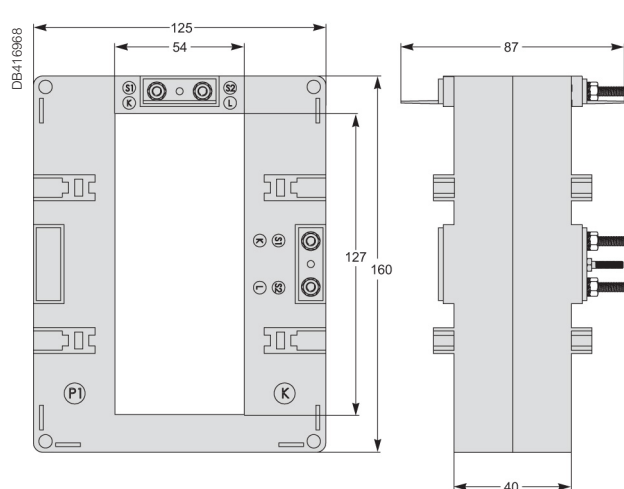
DA internal profile type



DB internal profile type

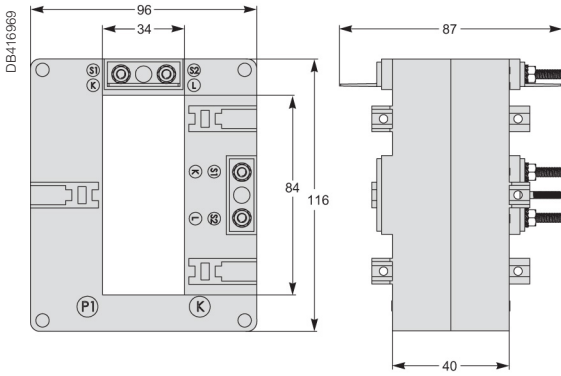


DC internal profile type

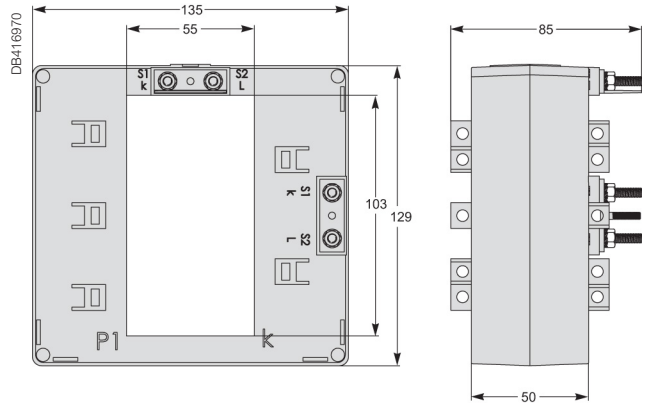


Solid core CT dimensions contd.

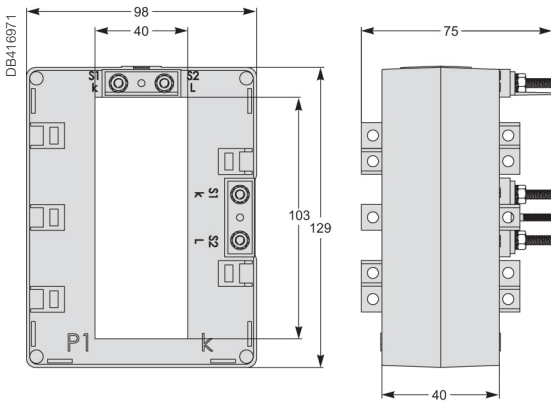
DD internal profile type



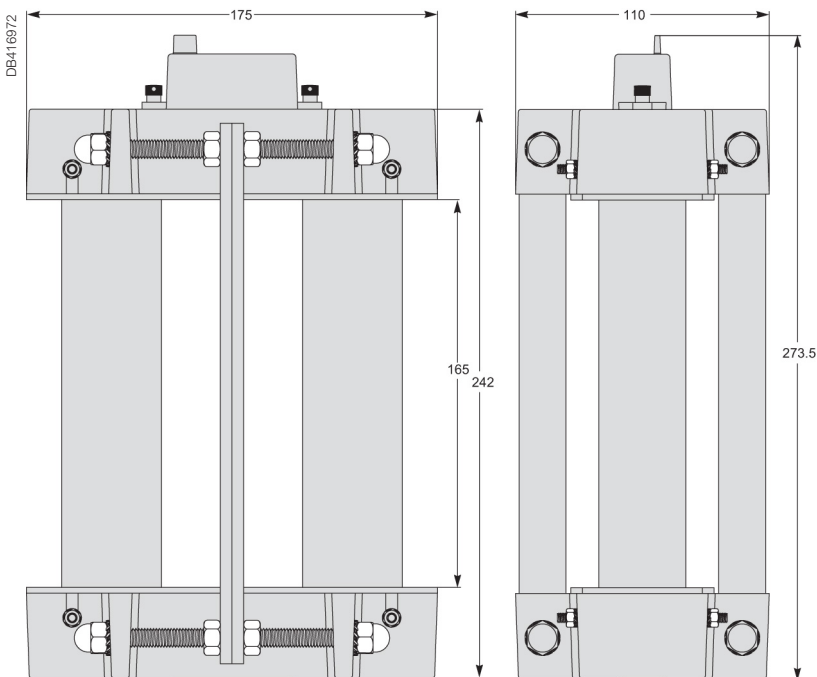
DE internal profile type



DH internal profile type



VV internal profile type

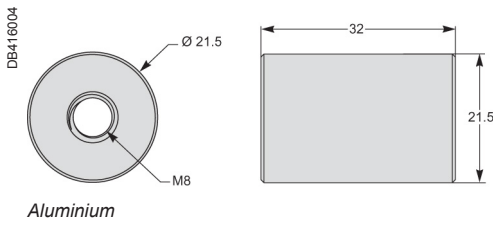


NOTE: See appropriate Installation Guide for these products.

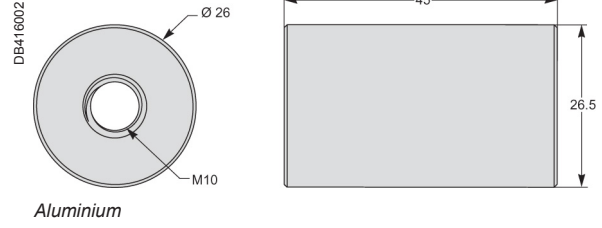
Solid core cylinders dimensions

Cylinders

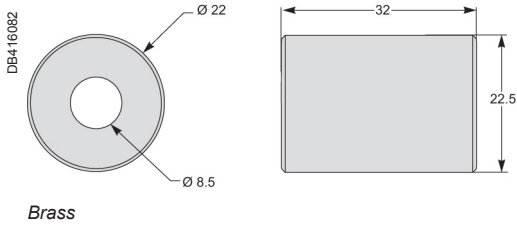
METSECT5CYL1



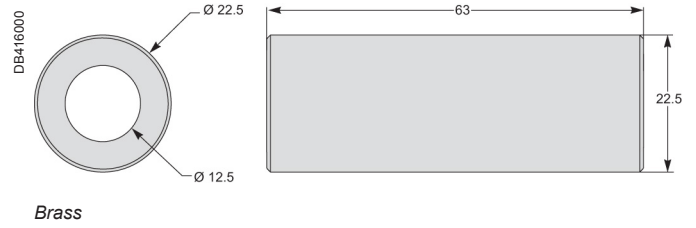
METSECT5CYL2



16550

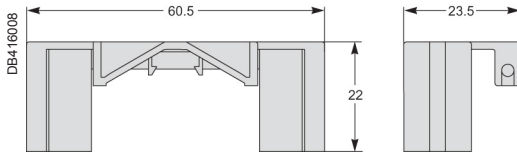


16551



Covers

METSECT5COVER



Split core CTs

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA, CSA Z462 or applicable local standards.
- Turn off all power supplying this device and the equipment in which it is installed before working on the device or equipment.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Treat I/O wiring connected to multiple devices as hazardous live until determined otherwise.
- Do not exceed the device's ratings for maximum limits.
- Do not use this device for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Disconnect all the device's input and output wires before performing dielectric (hi-pot) or Megger testing.

CT DAMAGE

- Never open circuit a current transformer (CT)
- Do not open the CT case.
- Do not attempt to repair any components of the CT.

Failure to follow these instructions will result in death or serious injury.

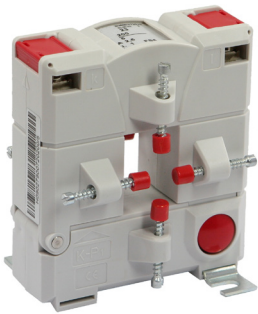
Hazard Label

Common characteristics	Cable CT	Bus Bar CT
Secondary current Is (A)	5 A	5 A
Maximum voltage rating Ue (V)	720 V	720 V
Frequency (Hz)	50/60 Hz	50/60 Hz
Safety factor (sf)	up to 1000 A: sf ≤ 5 greater than 1000 A: sf ≤ 10	up to 1500 A: sf ≤ 5 greater than 1500 A: sf ≤ 10
Degree of protection	IP20	IP20
Operating temperature	-5°C to +50°C relative humidity 5-85 %	-5°C to +40°C relative humidity 5-85 %
Storage temperature	-25°C to +70°C	-25°C to +70°C
Compliance with standards	IEC 61869-1 IEC 61869-2	IEC 61869-1 IEC 61869-2
Secondary connection (as per model)	by terminals for lug by tunnel terminals by screws	by terminals for lug by tunnel terminals by screws

Split core CT		
CT internal	Type H	Type G
	<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <p>HA HD HG HJ HP</p> </div>	<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <p>GA GD GG GJ</p> </div>
	<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <p>HM</p> </div>	

Split core CTs

PB119862



METSECT5GA●●●

PB119864



METSECT5GD●●●

PB119866



METSECT5GG●●●

PB119868

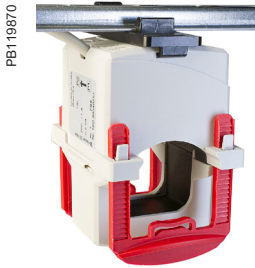


METSECT5GJ●●●

Type G - split core current transformers (bus bar)							
	Accuracy class			CT window dimension (mm)	Rating Ip/5A (A)	Commercial Reference no.	
	0.5	1	3				
GA							
	-	-	1.25	23 x 33	100	METSECT5GA010	
	-	-	1.5		150	METSECT5GA015	
	-	-	2.5		200	METSECT5GA020	
	-	1.5	-		250	METSECT5GA025	
	-	3.75	-		300	METSECT5GA030	
	1	-	-		400	METSECT5GA040	
GD							
	-	1.5	-	55 x 85	250	METSECT5GD025	
	-	2.5	-		300	METSECT5GD030	
	1	-	-		400	METSECT5GD040	
	2.5	-	-		500	METSECT5GD050	
	2.5	-	-		600	METSECT5GD060	
	2.5	-	-		750	METSECT5GD075	
	2.5	-	-		800	METSECT5GD080	
	5	-	-		1000	METSECT5GD100	
GG							
	-	1.5	-		85 x 125	250	METSECT5GG025
	-	2.5	-	300		METSECT5GG030	
	-	2.5	-	400		METSECT5GG040	
	2.5	-	-	500		METSECT5GG050	
	2.5	-	-	600		METSECT5GG060	
	2.5	-	-	750		METSECT5GG075	
	2.5	-	-	800		METSECT5GG080	
	5	-	-	1000		METSECT5GG100	
	5	-	-	1200		METSECT5GG120	
	7.5	-	-	1250		METSECT5GG125	
	7.5	-	-	1500		METSECT5GG150	
GJ							
	10	-	-	85 x 165	1000	METSECT5GJ100	
	10	-	-		1200	METSECT5GJ120	
	10	-	-		1500	METSECT5GJ150	
	10	-	-		1600	METSECT5GJ160	
	10	-	-		2000	METSECT5GJ200	
	10	-	-		2500	METSECT5GJ250	
	15	-	-		3000	METSECT5GJ300	
	15	-	-		4000	METSECT5GJ400	

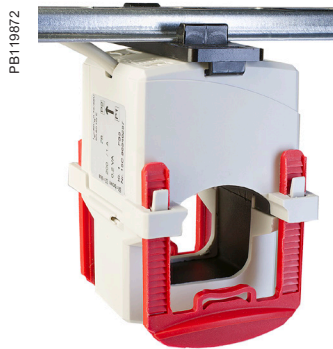
See your Schneider Electric representative for complete ordering information.

Split core CTs contd.



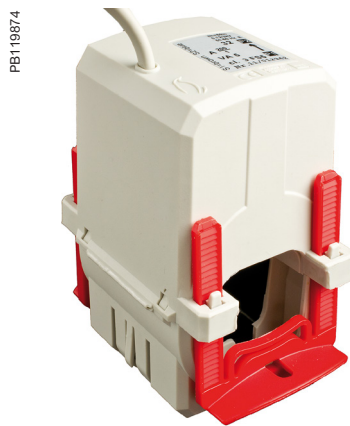
PB119870

METSECT5HA●●●



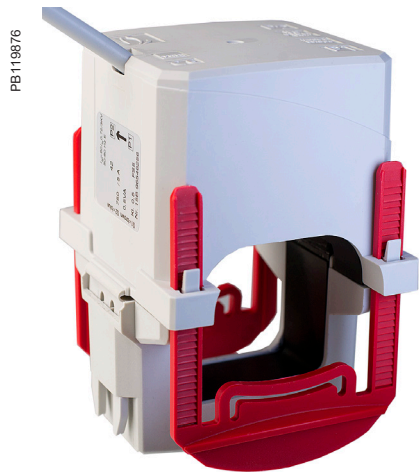
PB119872

METSECT5HD●●●



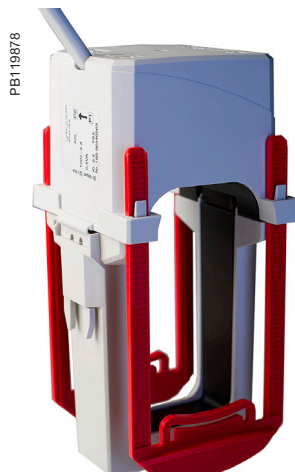
PB119874

METSECT5HG●●●



PB119876

METSECT5HJ●●●



PB119878

METSECT5HM●●●



PB119880

METSECT5HP●●●

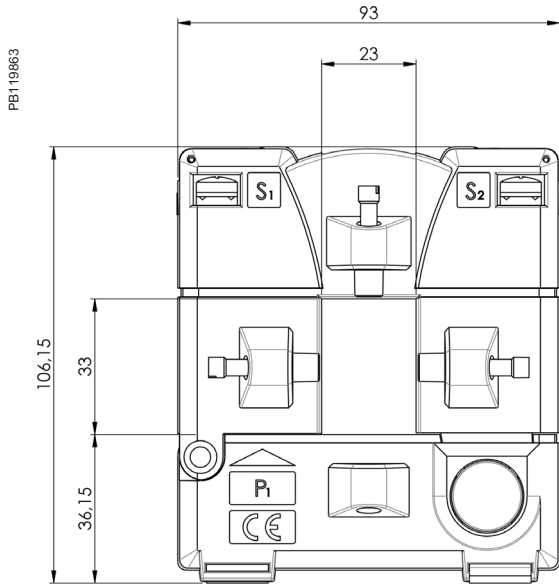
Type H - split core current transformers (cable)						
	Accuracy class			CT window dimension (mm)	Rating Ip/5A (A)	Commercial Reference no.
	Max power (VA)					
	0.5	1	3			
HA						
	-	1	-	18.4 x 19	150	METSECT5HA015
	-	1.5	-		150	METSECT5HA020
	1	-	-		250	METSECT5HA025
HD						
	-	1	-	27.9 x 27	250	METSECT5HD025
	-	1.5	-		300	METSECT5HD030
	-	2.5	-		400	METSECT5HD040
	1	-	-		500	METSECT5HD050
HG						
	-	-	1.5	Ø32.5	100	METSECT5HG010
	-	-	2.5		125	METSECT5HG013
	-	-	3		150	METSECT5HG015
	-	-	3		200	METSECT5HG020
	-	-	3		250	METSECT5HG025
	-	2.5	-		300	METSECT5HG030
	-	5	-		400	METSECT5HG040
	-	5	-		500	METSECT5HG050
	-	5	-		600	METSECT5HG060
HJ						
	-	2.5	-	42.4 x 43	300	METSECT5HJ030
	-	5	-		400	METSECT5HJ040
	-	5	-		500	METSECT5HJ050
	2.5	-	-		600	METSECT5HJ060
	2.5	-	-		750	METSECT5HJ075
	2.5	-	-		800	METSECT5HJ080
HM						
	-	2.5	-	42.4 x 85	300	METSECT5HM030
	-	5	-		400	METSECT5HM040
	-	5	-		500	METSECT5HM050
	2.5	-	-		600	METSECT5HM060
	2.5	-	-		750	METSECT5HM075
	2.5	-	-		800	METSECT5HM080
HP						
	-	1.5	-	Ø44	250	METSECT5HP025
	-	2.5	-		300	METSECT5HP030
	-	5	-		400	METSECT5HP040
	-	5	-		500	METSECT5HP050
	-	5	-		600	METSECT5HP060
	-	5	-		750	METSECT5HP075
	-	5	-		800	METSECT5HP080
	-	5	-		1000	METSECT5HP100

See your Schneider Electric representative for complete ordering information.

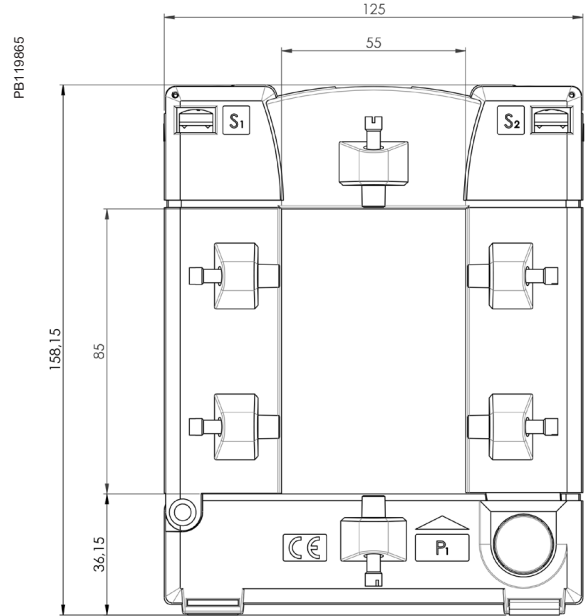
Split core CT dimensions

Gx products

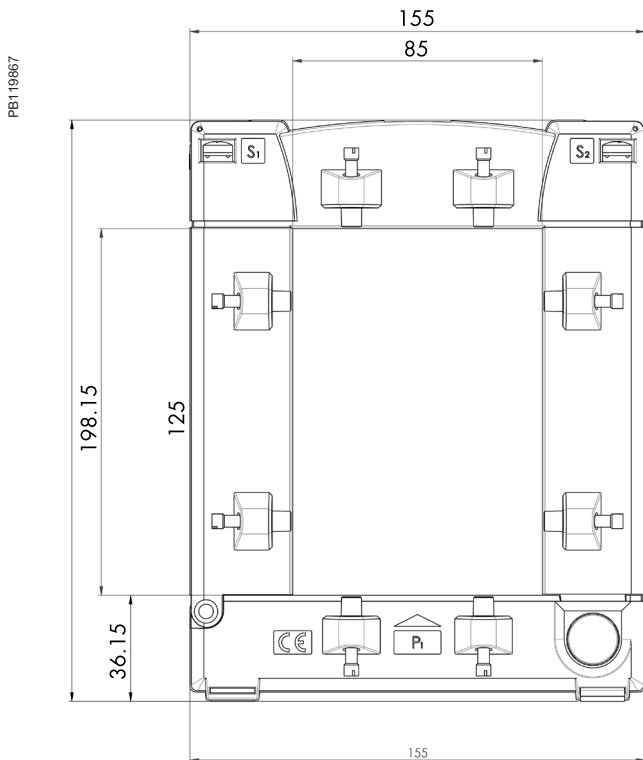
GA Dimensions



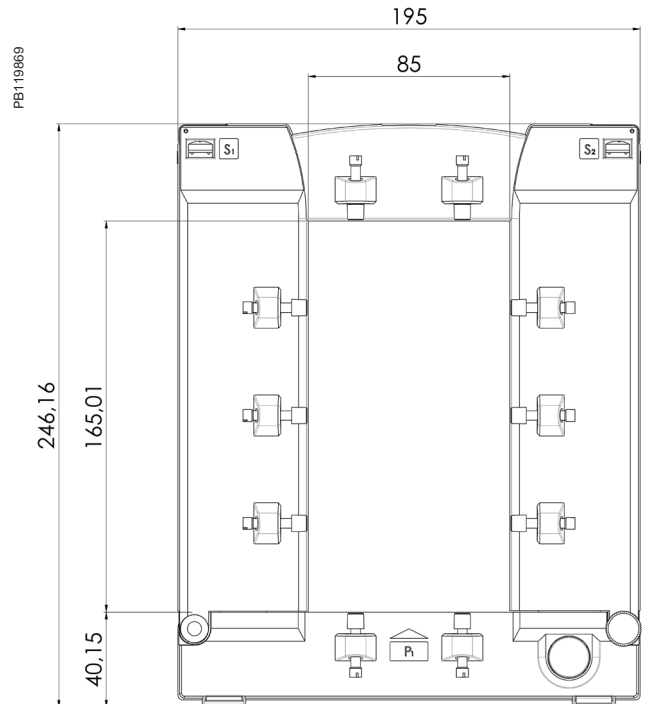
GD Dimensions



GG Dimensions



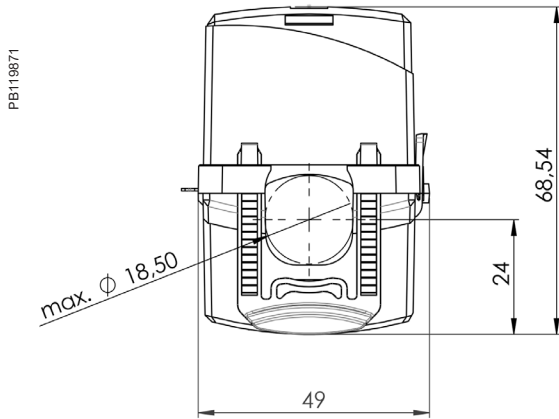
GJ Dimensions



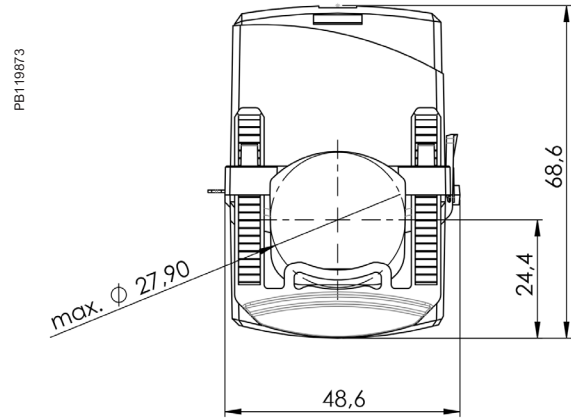
Split core CT dimensions contd.

Hx products

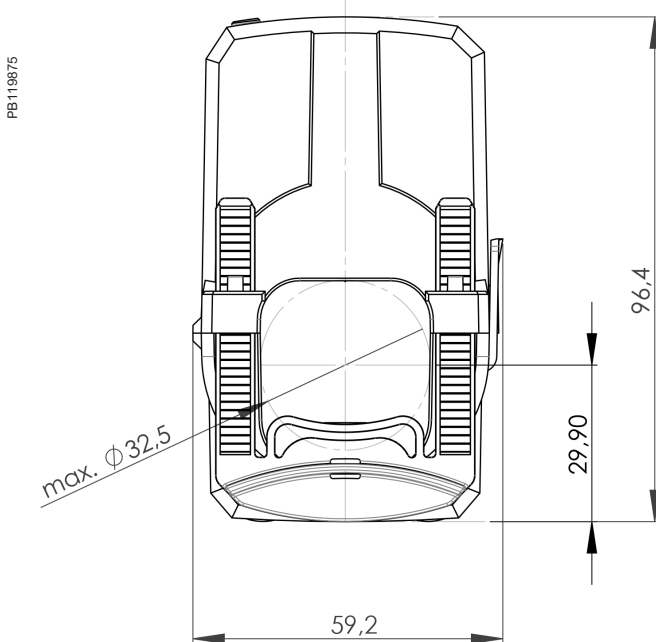
HA Dimensions



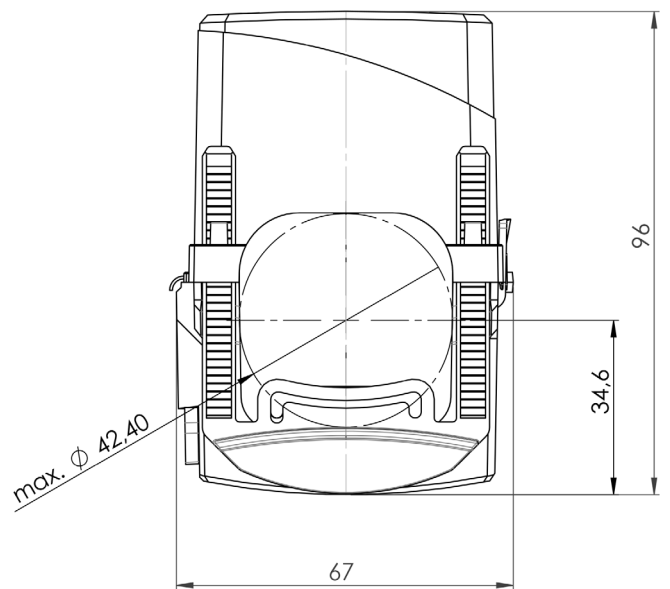
HD Dimensions



HG Dimensions

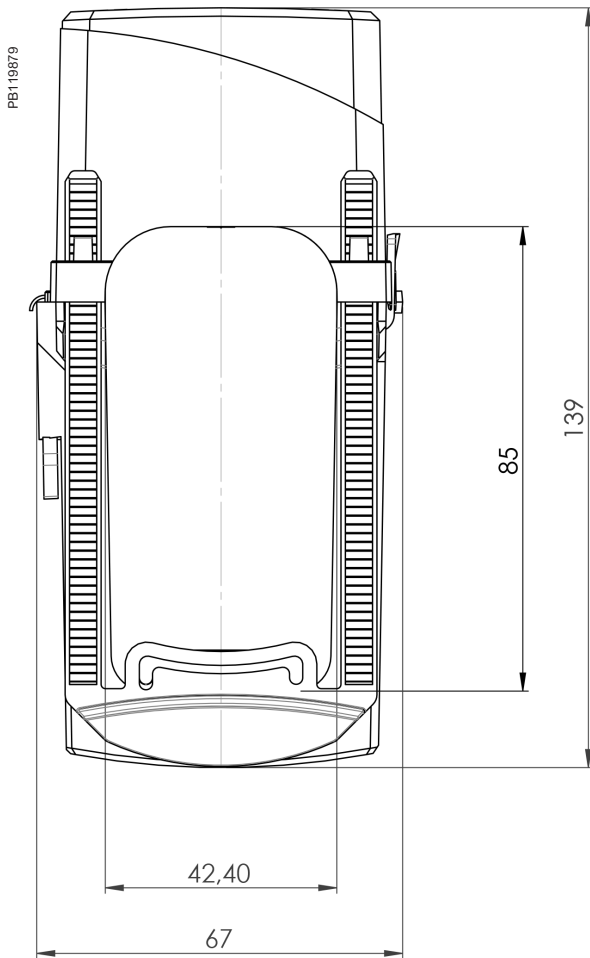


HJ Dimensions

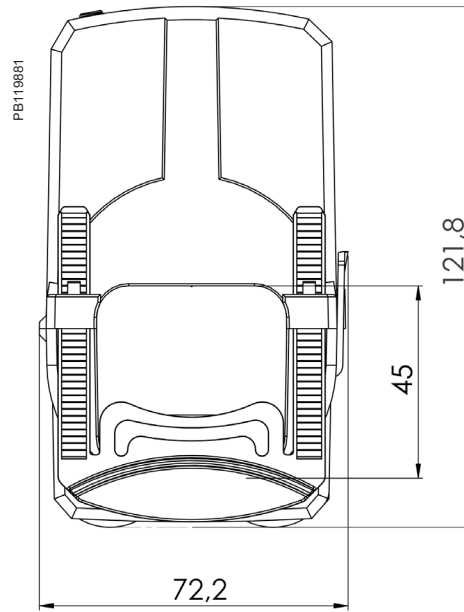


Split core CT dimensions contd.

HM Dimensions



HP Dimensions



Rogowski CTs

PB118060



METSECTR30500

PowerLogic Rogowski Current Transformer				
Main	METSECTR30500	METSECTR46500	METSECTR60500	METSECTR90500
Range	PowerLogic			
Product or component type	Current transducer			
Accessory / part category	Measurement accessory			
Range compatibility	PowerLogic EM3500 - EM3555A EM3502A EM3560 EM3550A EM3560 EM3561A PowerLogic EM4200 - EM4236 EM4235 Acti9 iEM3000 - iEM3555 iEM3565			
Current transformer type	Flexible core			
Complementary				
Electrical connection	Flying lead 2.4 m 600 V AC max, voltage L-N sensed conductor			
Cable	1000 V AC UL style 21223 cable with 22 AWG leads			
Current range	50 A to 5000 A			
Network frequency	50/60 Hz			
Measurement accuracy	±1 % from 50 A to 5000 A			
Installation category	600 V AC Cat IV			
Pollution degree	2			
Dimensions	METSECTR30500	METSECTR46500	METSECTR60500	METSECTR90500
CT core thickness	8 mm diameter	8 mm diameter	8 mm diameter	8 mm diameter
CT core length (open)	300 mm	460 mm	600 mm	900 mm
Diameter (closed)	96 mm	146 mm	191 mm	287 mm
Environment				
Standards	EN 61010-1, UL 61010-1, EN 61010-2-032, UL 61010-2-032			
Product certifications	CURus UL recognized			
Ambient air temperature for operation	-15°C to 60°C			
Ambient air temperature for storage	-40°C to 70°C			
Humidity range	0 to 95 % non-condensing			
Altitude	2000 m max			
Protection degree	IP67			
Commercial Reference Numbers				
METSECTR25500	Powerlogic - Rogowski current transformer, 250 mm CT core length, 80 mm dia. CT, rope, 600 V AC, 5 kA			
METSECTR30500	Powerlogic - Rogowski current transformer, 300 mm CT core length, 96 mm dia. CT, rope, 600 V AC, 5 kA			
METSECTR46500	Powerlogic - Rogowski current transformer, 460 mm CT core length, 146 mm dia. CT, rope, 600 V AC, 5 kA			
METSECTR60500	Powerlogic - Rogowski current transformer, 600 mm CT core length, 191 mm dia. CT, rope, 600 V AC, 5 kA			
METSECTR90500	Powerlogic - Rogowski current transformer, 900 mm CT core length, 287 mm dia. CT, rope, 600 V AC, 5 kA			

Panel instruments

Schneider Electric panel instruments reliably comply with the most stringent standards, including IEC, MID, UL, etc., and we thoroughly test all products with recognized, third-party laboratories.

Our products are simple to install, configure, and use. This saves our partners time and money and lets them deliver the best solutions in a timely and cost-effective manner.

Whatever the size or type of application, the PowerLogic™ product line is an integral part of smart panels.

DB119006
PB112024
PB101118



16029



15202



16003



iAMP.



16029



iVLT.



16061

Function

iAMP

Ammeters measure the current flowing through an electric circuit in amps.

iVLT

Voltmeters measure the potential (voltage) difference of an electric circuit in volts.

Common technical data

- Accuracy: Class 1.5.
- Complies with standards IEC 60051-1, IEC 61010-1 and IEC 61000-4.
- Ferromagnetic device.
- Pseudo-linear scale over 90°.
- Ammeters (except catalog number 16029):
 - connection on CT, ratio $I_n/5$, to be ordered separately interchangeable dials.
- Temperature:
 - operating temperature: -25°C to 55°C
 - reference temperature: 23°C
- Influence of temperature on accuracy: $\pm 0.03\%/^{\circ}\text{C}$.
- Utilisation frequency: 50 Hz to 60 Hz.
- Consumption:
 - AMP: 1.1 VA
 - VLT catalog number 15060: 2.5 VA
 - VLT catalog number 16061: 3.5 VA.
- Permanent overload:
 - AMP: 1.2 I_n
 - VLT: 1.2 U_n .
- Maximum overload for 5 s:
 - AMP: 10 I_n
 - VLT: 2 U_n .
- Connection: tunnel terminals for 1.5 to 6 mm² rigid cables.

Commercial reference numbers

Type	Scale	Connection with CT	Width in mod. of 9 mm	Comm. ref. no.
iAMP with direct connection				
	0-30 A	no	8	16029
iAMP with connection on CT				
Basic device (delivered without dial)		X/5	8	16030
Dial	0-5 A			
	0-50 A	50/5		16032
	0-75 A	75/5		16033
	0-100 A	100/5		16034
	0-150 A	150/5		16035
	0-200 A	200/5		16036
	0-250 A	250/5		16037
	0-300 A	300/5		16038
	0-400 A	400/5		16039
	0-500 A	500/5		16040
	0-600 A	600/5		16041
	0-800 A	800/5		16042
	0-1000 A	1000/5		16043
	0-1500 A	1500/5		16044
	0-2000 A	2000/5		16045
iVLT				
	0-300 V		8	16060
	0-500 V		8	16061

See your Schneider Electric representative for complete ordering information.



iAMP.



iVLT.



iFRE.

Function

iAMP

Ammeters measure in amps the current flowing through an electric circuit.

iVLT

Voltmeters measure in volts the potential (voltage) difference of an electric circuit.

iFRE

Frequency meters measure in hertz the frequency of an electric circuit from 20 to 600 V AC.

Common technical data

- Supply voltage: 230 V AC
- Operating frequency: 50 Hz to 60 Hz.
- Display by red LED: 3 digits, h = 8 mm (0.31 in).
- Accuracy at full-scale : 0.5 % ±1 digit.
- Consumption: max. 5 VA or rated 2.5 VA.
- Degree of protection:
 - IP40 on front face.
 - IP20 at terminal level.
- Connection: tunnel terminals for 2.5 mm² cables.

Specific data

10 A direct reading ammeter

- Minimum value measured: 4 % of rating.
- Measurement input consumption: 1 VA.

Multi-rating ammeter

- Ratings:
 - in direct reading: 5 A.
 - by CT (not supplied) configurable on the front face of the ammeter: 10, 15, 20, 25, 40, 50, 60, 100, 150, 200, 250, 400, 500, 600, 800, 1000, 1500, 2000, 2500, 4000, 5000 A.
- Minimum value measured: 4 % of rating.
- Measurement input consumption: 0.55 VA.

Voltmeter

- Direct measurement: 0...600 V AC
- Input impedance: 2 MW.
- Minimum value measured: 4 % of rating.

Frequency meter

- Minimum value measured: 20 Hz.
- Maximum value measured: 100 Hz.
- Full-scale display: 99.9 Hz.

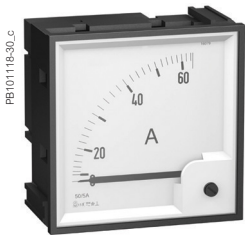
Compliance with standards

- Safety: IEC/EN 61010-1.
- EMC electromagnetic compatibility: IEC/EN 65081-1 and IEC/EN 65082-2.

Commercial reference numbers

Type	Scale	Connection with CT	Width in mod. of 9 mm	Comm. ref. no.
Direct reading iAMP	0-10 A	No	4	15202
	0-5000 A	As per rating	4	15209
iVLT	0-600 V		4	15201
	20-100 Hz		4	15208

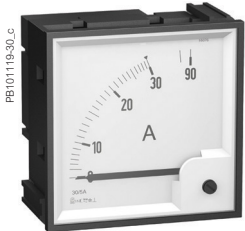
See your Schneider Electric representative for complete ordering information.



AMP for standard feeder.



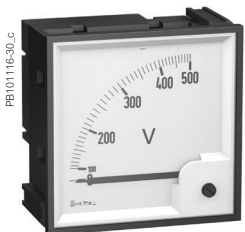
16009



AMP for motor feeder.



16006



VLT.



16005

Function

The 72 x 72 measurement devices are designed for flush-mounted installation on doors, wicket doors and front plates of enclosures and cubicles.

AMP

The ammeters measure in amps the current flowing through an electrical circuit.

VLT

The voltmeter measure in volts the potential difference (voltage) of an electrical circuit.

Common technical data

- Accuracy: Class 1.5.
- Compliance with standard IEC 60051-1, IEC 61010-1 and IEC 61000-4.
- Ferromagnetic device.
- Scale length: 62 mm over 90°.
- Mounting in enclosure or in cubicle.
- Degree of protection: IP52.
- Maximum operating position: 30° / vertical.
- Temperature:
 - operation: -25°C to 50°C.
 - reference: 23°C.
- Influence of temperature on accuracy: ±0.003 %/°C.
- Utilisation frequency: 50 Hz to 60 Hz.

AMP specific technical data

- Needs a In/5 CT to be ordered separately.
- Interchangeable dials to be ordered separately.
- Consumption: 1.1 VA.
- Permanent overload: 1.2 In.
- Maximum overload for 5 s: 10 In.

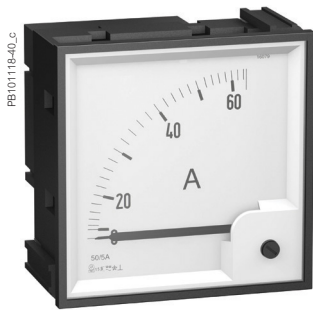
VLT specific technical data

- Consumption: 3 VA.
- Permanent overload: 1.2 Un.
- Maximum overload for 5 s: 2 Un.

Commercial reference numbers

Type	Scale	Connection on CT	Comm. ref. no.
AMP for standard feeder			
Basic device (delivered without dial)		X/5	16004
1.3 In dial	0-50 A	50/5	16009
	0-100 A	100/5	16010
	0-200 A	200/5	16011
	0-400 A	400/5	16012
	0-600 A	600/5	16013
	0-1000 A	1000/5	16014
	0-1250 A	1250/5	16015
	0-1500 A	1500/5	16016
	0-2000 A	2000/5	16019
AMP for motor feeder			
Basic device (delivered without dial)		X/5	16003
3 In dial	0-30-90 A	30/5	16006
	0-75-225 A	75/5	16007
	0-200-600 A	200/5	16008
VLT			
	0-500 V		16005

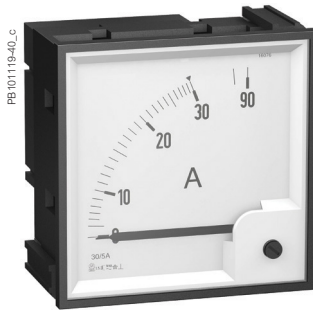
See your Schneider Electric representative for complete ordering information.



AMP for standard feeder.



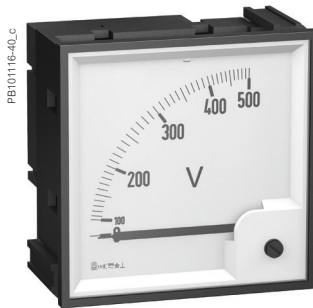
16079



AMP for motor feeder.



16076



VLT.



16075

Function

The 96 x 96 measurement devices are designed for flush-mounted installation on doors, wicket doors and front plates of enclosures and cubicles.

AMP

The ammeters measure in amps the current flowing through an electrical circuit.

VLT

The voltmeter measure in volts the potential difference (voltage) of an electrical circuit.

Common technical data

- Accuracy: class 1.5.
- Compliance with standard IEC 60051-1, IEC 61010-1 and IEC 61000-4.
- Ferromagnetic device.
- Scale length: 80 mm over 90°.
- Mounting in enclosure or in cubicle.
- Degree of protection: IP52.
- Maximum operating position: 30° / vertical.
- Temperature:
 - operation: -25°C to 50°C.
 - reference: 23°C.
- Influence of temperature on accuracy: ±0.003 % /°C.
- Utilisation frequency: 50 Hz to 60 Hz.

AMP specific technical data

- Needs a In/5 CT to be ordered separately.
- Interchangeable dials to be ordered separately.
- Consumption: 1.1 VA.
- Permanent overload: 1.2 In.
- Maximum overload for 5S: 10 In.

VLT specific technical data

- Consumption: 3 VA.
- Permanent overload: 1.2 Un.
- Maximum overload for 5S: 2 Un.

Commercial reference numbers

Type	Scale	Connection on CT	Comm. ref. no.
AMP for standard feeder			
Basic device (delivered without dial)		X/5	16074
1.3 In dial	0-50 A	50/5	16079
	0-100 A	100/5	16080
	0-200 A	200/5	16081
	0-400 A	400/5	16082
	0-600 A	600/5	16083
	0-1000 A	1000/5	16084
	0-1250 A	1250/5	16085
	0-1500 A	1500/5	16086
	0-2000 A	2000/5	16087
	0-2500 A	2500/5	16088
	0-3000 A	3000/5	16089
	0-4000 A	4000/5	16090
	0-5000 A	5000/5	16091
0-6000 A	6000/5	16092	
AMP for motor feeder			
Basic device (delivered without dial)		X/5	16073
3 In dial	0-30-90 A	30/5	16076
	0-75-225 A	75/5	16077
	0-200-600 A	200/5	16078
VLT			
	0-500 V		16075

See your Schneider Electric representative for complete ordering information.

Function

The 48 x 48 selector switches are designed for flush-mounted installation on doors, wicket doors and front plates of enclosures and cubicles.

CMA

The ammeter selector switch uses a single ammeter (by means of current transformers) for successive measurement of the currents of a three-phase circuit.

CMV

The voltmeter selector switch uses a single voltmeter for successive measurement of the voltages (phase-to-phase and phase-to-neutral) of a three-phase circuit.

Common technical data

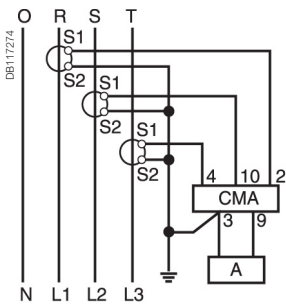
- Durability:
 - electrical: 100,000 operations.
 - mechanical: 2,000,000 operations.
- AgNi contact.
- Operating temperature: -25°C to 50°C.
- Compliance with standards IEC/EN 60947-3.
- Degree of protection:
 - IP65 on front face.
 - IP20 at terminal level.

Commercial reference numbers

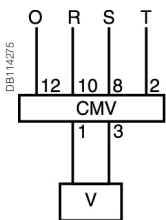
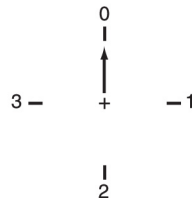
Type	Rating (A)	Voltage (V)	Number of positions	Comm. ref. no.
CMA	20		4	16017
CMV		500	7	16018

See your Schneider Electric representative for complete ordering information.

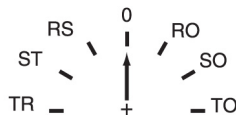
Connection



CMA.



CMV.



Reading 3 phase-to-earth voltages + 3 phase-to-phase voltages.

Note: when connecting do not remove the pre-cabling.

See appropriate Installation Guide for this product.



iCMA.



iCMV.

Function

iCMA

This 4-position ammeter selector switch uses a single ammeter (using current transformers) for successive measurement of the currents of a three-phase circuit.

iCMV

This 7-position voltmeter selector switch uses a single voltmeter for successive measurement of voltages (phase-to-phase and phase-to-neutral) of a three-phase circuit.

Common technical data

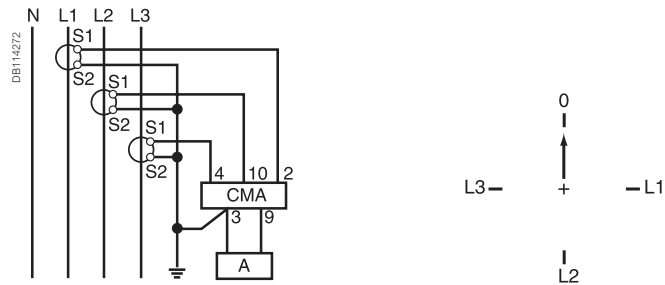
- Rotary handle.
- Maximum operating voltage: 440 V, 50/60 Hz.
- Nominal thermal current: 10 A.
- Operating temperature: -20°C to 55°C.
- Storage temperature: -25°C to 80°C.
- Mechanical durability (AC21A-3 x 440 V): 2,000,000 operations.
- Degree of protection:
 - IP66 on front face.
 - IP20 at terminal level.
- Electrical durability: 1,000,000 operations.
- Connection: jumper terminals with captive screws, for cables up to 1.5 mm².
- Complies with standards: IEC/EN 60947-3.

Commercial reference numbers

Type	Rating (A)	Voltage (V AC)	Width in mod. of 9 mm	Comm. ref. no.
iCMA	10	415	4	15126
iCMV	10	415	4	15125

See your Schneider Electric representative for complete ordering information.

Connection



iCMA.



iCMV.

See appropriate Installation Guide for this product.



15440

iCH "DIN".



15607

CH "48 x 48".

Function

Electromechanical counter that counts the operating hours of a machine or piece of electrical equipment. Giving a precise indication of operating time, the counter is used to decide when to carry out preventive maintenance.

Common technical data

- Electromechanical display.
- Maximum display: 99999.99 hours.
- Display accuracy: 0.01 %.
- Without reset.
- Storage temperature: -25°C to 85°C.
- Connection: tunnel terminals for 2.5 mm² cable.

Specific technical data

iCH "DIN"

- Consumption: 0.15 VA.
- Operating temperature: -10°C to 70°C.
- Mounting on DIN rail.

CH "48 x 48"

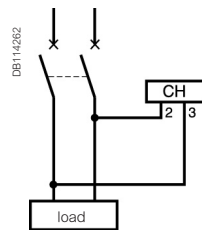
- Consumption:
 - 15607: 0.25 VA
 - 15608: 0.15 VA
 - 15609: 0.02 VA to 12 V and 0.3 VA to 36 V.
- Operating temperature: -20°C to 70°C.
- Degree of protection: IP65 on front face.
- Mounting on front face of monitoring switchboards.

Commercial reference numbers

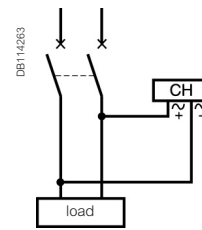
Type	Voltage (V)	Width in mod. of 9 mm	Comm. ref. no.
iCH "DIN"	230 V AC ± 10 %/50 Hz	4	15440
CH "48 x 48"	24 V AC ± 10 %/50 Hz		15607
	230 V AC ± 10 %/50 Hz		15608
	12 to 36 V DC		15609

See your Schneider Electric representative for complete ordering information.

Connection



iCH "DIN".



CH "48 x 48".

See appropriate Installation Guide for this product.

iCI_1eps



15443

iCI impulse counter

Function

Electromechanical counter designed to count impulses emitted by: kilowatt-hour meters, temperature overrun detectors, people meters, speed meters, etc.

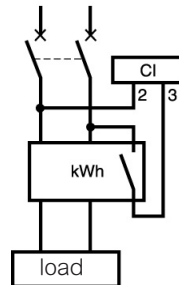
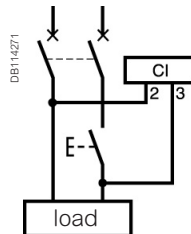
Common technical data

- Supply and metering voltage: 230 V AC \pm 10 %, 50/60 Hz.
- Consumption: 0.15 VA.
- Maximum display: 9 999 999 impulses.
- Without reset.
- Metering data:
 - minimum impulse time: 50 ms
 - minimum time between 2 impulses: 50 ms.
- Storage temperature: -25°C to 85°C.
- Operating temperature: -10°C to 70°C.
- Connection: tunnel terminals for 2.5 mm² cable.

Commercial reference numbers

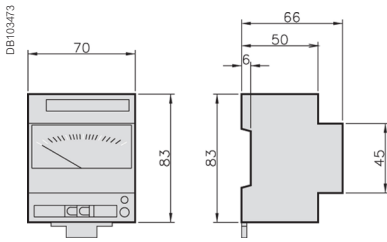
Type	Width in mod. of 9 mm	Comm. ref. no.
iCI	4	15443

Connection

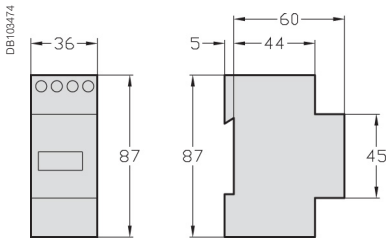


See appropriate Installation Guide for this product.

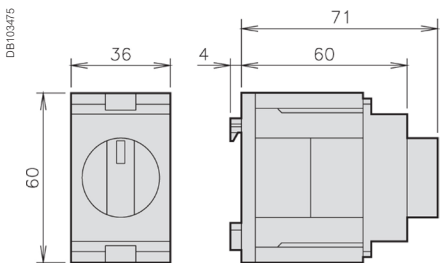
Analog ammeters and voltmeters iAMP, iVLT



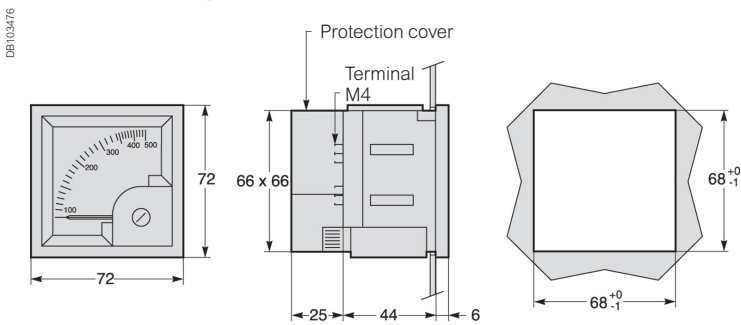
Digital ammeters, voltmeter and frequency meter iAMP, iVLT



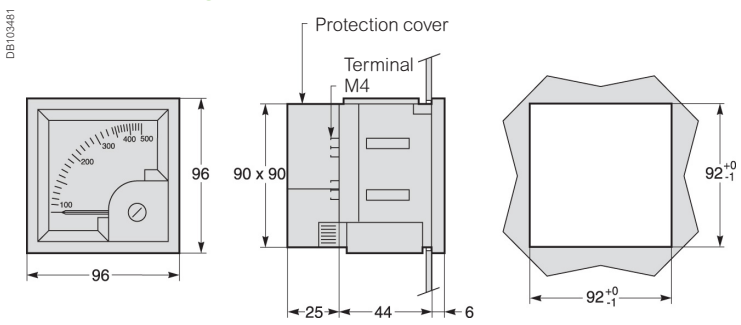
iCMA and iCMV selector switches



72 x 72 analog ammeters and voltmeter

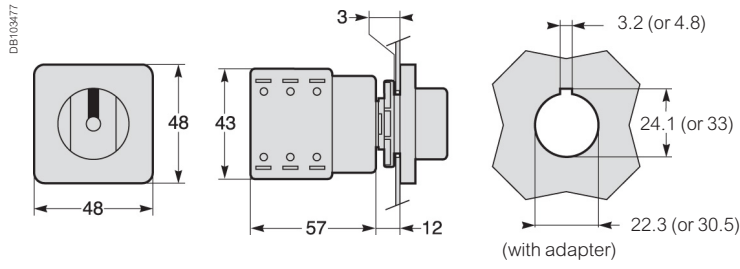


96 x 96 analog ammeters and voltmeter

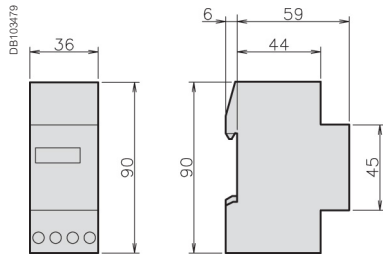


See the appropriate Installation Guide for this product.

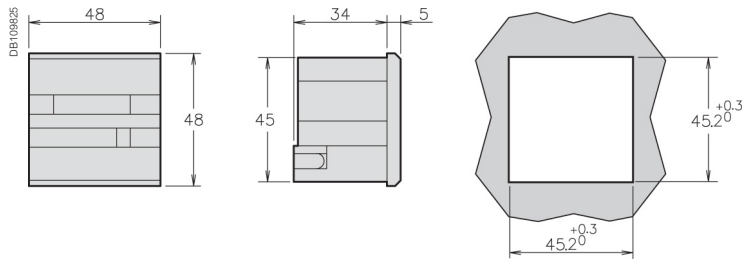
48 x 48 CMA and CMV selector switches



iCI impulse counter and iCH hour counter



48 x 48 CH hour counters



See the appropriate Installation Guide for this product.

Basic energy metering

Whether you require a single-phase kWh meters or full-featured, dual tariff energy meter, Schneider Electric provides iEM2xxx & iEM3xxx series meters to best fit your customer's application.

- PowerLogic iEM2000 series
- PowerLogic iEM2100 series
- PowerLogic iEM3000 series

PB108401

PB115001

PB108410



A9MEM2000



A9MEM2100



A9MEM3100

Acti9 iEM2000 Series

The Acti9 iEM2000 series energy meters offer a cost-attractive, competitive range of single-phase DIN rail-mounted energy meters ideal for sub-billing and cost allocation applications.

Applications

- Monitor power consumption for each floor, office sector, or unit
- Allocate energy costs to lower cost of operations, optimise your building's power efficiency
- Connect to power management software to take full advantage of the IoT digital power installation

PB105269



[A9MEM2000](#)

The solution for:

All markets that can benefit from a solution that includes PowerLogic iEM2000 series meters:

- Buildings
- Industry
- Data Centre & networks
- Infrastructures (airport, road tunnels, telecom).

Benefits

The Acti9 iEM2000 series meters are economical and easy to install in panelboards and switchboards:

- DIN rail mounted, compact size
- Accurate data measurement with Class 1 accuracy

Advantages

- Active energy Class 1 accuracy, with LCD display
- Modbus RS-485 and pulse output
- Direct connect, self-powered
- MID approved
- Two tariffs

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 62053-21
- EN 50470-3

iEM2000 feature selection

	iEM2000T	iEM2000	iEM2010	iEM2050	iEM2055
Self-powered	■	■	■	■	■
Display		■	■	■ (6 digit LCD)	■ (6 digit LCD)
Width (mm)	18	18	18	17.5	17.5
Current input	40 A	40 A	40 A	45 A	45 A
Multi-tariff				2 tariffs	2 tariffs
Communication				Modbus	Modbus
Active Energy accuracy	Class 1 IEC 62053-21	Class 1 IEC 62053-21 Class B EN 50470-3	Class 1 IEC 62053-21 Class B EN 50470-3	Class 1 IEC 62053-21	Class 1 IEC 62053-21 Class B EN 50470-3
Digital outputs	1 P/O		1 P/O	1 P/O	1 P/O
MID for billing application		■	■		■
Commercial reference number	A9MEM2000T	A9MEM2000	A9MEM2010	A9MEM2050	A9MEM2055

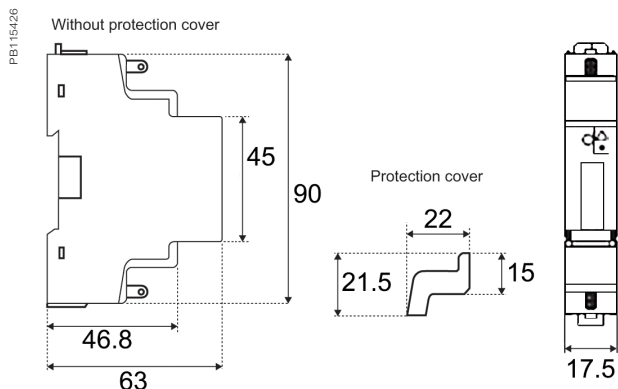
See your Schneider Electric representative for complete ordering information.

iEM2000 series technical specifications

Technical specifications

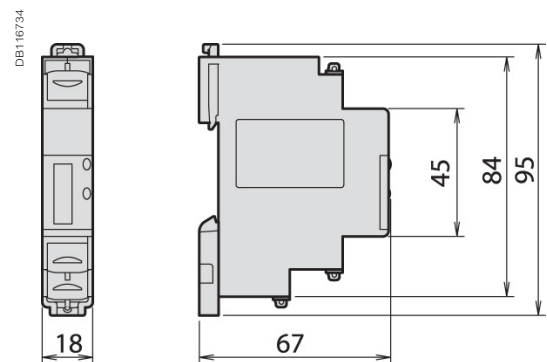
	iEM2000T	iEM2000	iEM2010	iEM2050	iEM2055
COMM reference number	A9MEM2000T	A9MEM2000	A9MEM2010	A9MEM2050	A9MEM2055
Direct connection	Up to 40 A	Up to 40 A	Up to 40 A	Up to 45 A	Up to 45 A
Pulse output operation	100 pulses/kWh (120ms long)			10000, 2000, 1000, 100, 10, 1, 0.1, 0.01 pulses/kWh	
Display capacity	999999.9 kWh			9999.99 kWh (switching to 99999.9 when over this value)	
Voltage range (L-N)	184 to 276 V AC			195 to 253 V AC	
Operating frequency	50/60 Hz			50 Hz	
Meter constant LED	3200 flashes per kWh			10000 flashes per kWh	
Wiring capacity (Power)	4 mm ²			2.5 mm ²	
Wiring capacity (Communications)	10 mm ²			8-10 mm ²	
Consumption	<10 VA				
IP protection	IP40 front panel and IP20 casing			IP51 front panel	
Temperature	-10°C to 55°C			-25°C to 55°C	
Active energy	■	■	■	■	■
Reactive energy				■	■
Active power				■	■
Reactive power				■	■
Power Factor				■	■
Current and voltage				■	■
Frequency				■	■

iEM2050/iEM2055 dimensions



Maximum diameter power connection clamps 8 mm² (solid copper). See the appropriate product Installation Guide for complete instructions.

iEM2000 dimensions



Maximum diameter power connection clamps 8 mm² (solid copper). See the appropriate product Installation Guide for complete instructions.

Acti9 iEM2100 Series

The Acti9 iEM2100 series energy meters are ideal for basic kWh metering and billing applications and support two protocols (Modbus and M-bus) that allow them to integrate seamlessly into your customers' existing networks.

Applications

- Monitor the power consumption of each sector, unit, workshop etc.
- Manage an electrical installation and optimise your building's power efficiency
- Various business, industrial and residential applications

PB118059



A9MEM2100

The solution for

All markets that can benefit from a solution that includes PowerLogic iEM2100 series meters:

- Buildings
- Industry
- Data Centre & networks
- Infrastructures (airport, road tunnels, telecom).

Benefits

The Acti9 iME kilowatt-hour meters are especially economic and easy to install in all switchboards.

Competitive advantages

- Compact size
- MID compliant (selected models) providing certified accuracy and data security
- Four quadrant measurement
- Electrical parameter measurement eg. V, I, P, PF
- Onboard Modbus or M-bus communication
- A complete range of energy meters
- Compatible with Acti9 range

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 62052-11
- IEC 62053-21
- IEC 62053-23
- EN 50470-1
- EN 50470-3

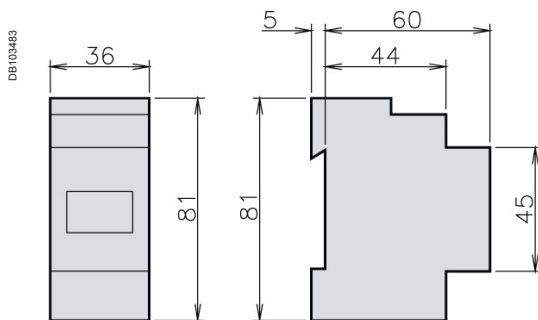
iEM2100 feature selection

	iEM2100	iEM2105	iEM2110	iEM2135	iEM2150	iEM2155
Self-powered	■	■	■	■	■	■
Display	■	■	■	■	■	■
Width (mm)	36	36	36	36	36	36
Current input	63 A	63 A	63 A	63 A	63 A	63 A
Active Energy accuracy	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy accuracy	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Four quadrant Energy measurement			■	■	■	■
Multi-tariff			2	2		2
Digital inputs			1 (tariff switching)	1 (tariff switching)		1 (tariff switching)
Digital outputs		1 P/O	2 P/O's			
Communication protocol				M-bus	Modbus RS-485	Modbus RS-485
MID for billing application			■	■		■
Commercial reference number	A9MEM2100	A9MEM2105	A9MEM2110	A9MEM2135	A9MEM2150	A9MEM2155

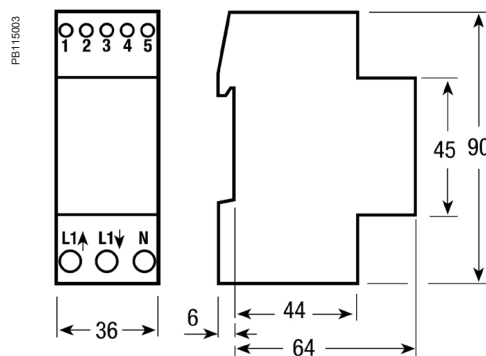
Acti9 iEM2100 series technical specifications

Technical specifications						
	iEM2100	iEM2105	iEM2110	iEM2135	iEM2150	iEM2155
Direct connection	63 A	63 A	63 A	63 A	63 A	63 A
Pulse output operation		1 pulse/kWh (200ms long)	1 to 1000 pulses / kWh or kvarh (30 to 100ms long)			
Display capacity	99999 kWh or 999.99 MWh		999999.99 kWh			
Voltage range (L-N)	184 to 276 V AC		92 to 276 V AC			
Operating frequency	50/60 Hz					
Meter constant LED	1000 flashes per kWh					
Wiring capacity (Top)	6 mm ²		4 mm ²			
Wiring capacity (Bottom)	32 mm ² (16 mm ² iEM2100/iEM2105)					
Consumption	2.5 VA		3 VA			
IP protection	IP40 front panel and IP20 casing					
Temperature	-25°C to 55°C					
Active energy	■	■	■	■	■	■
Reactive energy			■	■	■	■
Active power			■	■	■	■
Reactive power			■	■	■	■
Power Factor			■	■	■	■
Current and voltage			■	■	■	■
Frequency			■	■	■	■

iEM2100/iEM2105 dimensions



iEM2110/iEM2135/iEM2150/iEM2155 dimensions



See the appropriate product Installation Guide for complete instructions.

iEM2000 and iEM2100 series commercial reference numbers

Comm. reference number	Product
A9MEM2000T	iEM2000T basic energy meter, no display
A9MEM2000	iEM2000 basic energy meter
A9MEM2010	iEM2010 energy meter, kWh pulse output
A9MEM2100	iEM2100 basic energy meter
A9MEM2050	iEM2050 modular single phase power meter 230 V - 45 A with Modbus
A9MEM2055	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID
A9MEM2105	iEM2105 energy meter, kWh pulse output with partial meter
A9MEM2110	iEM2110 energy meter, kWh and kvarh pulse outputs with two tariffs, four quadrant energy measurement, MID certified
A9MEM2135	iEM2135 energy meter, M-Bus communication, four quadrant energy measurement, two tariffs, MID certified
A9MEM2150	iEM2150 energy meter, Modbus communication, four quadrant energy measurement
A9MEM2155	iEM2155 energy meter, Modbus communication, four quadrant energy measurement, two tariffs, MID certified

See your Schneider Electric representative for complete ordering information.

Acti9 iEM3000 Series

The Acti9 iEM3000 series energy meters is a cost-attractive, feature-rich energy metering offer for DIN rail, modular enclosures. With Modbus, BACnet, M-bus and LON protocol support, you can easily integrate these meters into commercial and non-critical buildings to add simple energy management applications to any BMS, AMR or EMS system.

Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use
- Sub-billing individual tenants for their energy consumption, including WAGES
- Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility

Network management applications

- Basic metering of electrical parameters to better understand the behaviour of your electrical distribution system

PB108418



A9MEM3100

More than just kWh meters, the Acti9 iEM3000 series meters provide a full view of both energy consumption and on-site generation with full four-quadrant measurement of active and reactive energy delivered and received. Additionally, extensive real-time measurements (V, I, P, PF) give customers greater detail on their energy usage, and multiple tariffs give customers the flexibility to match the billing structure of their utility.

The solution for

All markets that can benefit from a solution that includes PowerLogic iEM3000 series meters:

- Buildings & industry
- Data centres and networks
- Infrastructure (airports, road tunnels, telecom)

Benefits

Optimise your energy consumption & enable energy efficiency practices

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Use information to implement actions designed to reduce energy consumption

Monitor the energy consumption of your tenants or customers and establish accurate invoices

- Drive energy-efficient behaviour
- Allow building owners to bill tenants for individual measured utility usage
- Give accurate and achievable objectives for energy savings

Competitive advantages

- Compact size
- MID compliant (selected models) providing certified accuracy and data security
- Programmable digital inputs/outputs
- Multi-tariff capability
- Onboard Modbus, LON, M-bus or BACnet communication
- A complete range of energy meters
- Compatible with Acti9 range

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 61557-12
- IEC 62053-21/22
- IEC 62053-23
- EN 50470-1
- IEC 61036
- IEC 61010
- EN 50470-3

Acti9 iEM3000 Series

iEM3000 feature selection									
	iEM3100 iEM3200 iEM3300	iEM3110 iEM3210 iEM3310	iEM3115 iEM3215	iEM3150 iEM3250 iEM3350	iEM3135 iEM3235 iEM3335	iEM3155 iEM3255 iEM3355	iEM3165 iEM3265 iEM3365	iEM3175 iEM3275 iEM3375	
Self-powered	■	■	■	■	■	■	■	■	
Width (18 mm module)	5/5/7	5/5/7	5/5	5/5/7	5/5/7	5/5/7	5/5/7	5/5/7	
Direct measurement (up to)	63 A/-/125 A	63 A/-/125 A	63 A/-	63 A/-/125 A	63 A/-/125 A	63 A/-/125 A	63 A/-/125 A	63 A/-/125 A	
Measurement input through CTs (1 A, 5 A)	- / ■ / -	- / ■ / -	- / ■	- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -	
Measurement input through VTs				- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -	
Active Energy measurements class	1/0.5S/1	1/0.5S/1	1/0.5S	1/0.5S/1	1/0.5S/1	1/0.5S/1	1/0.5S/1	1/0.5S/1	
Four Quadrant Energy measurement					■	■	■	■	
Electrical parameter measurements (I, V, P,...)				■	■	■	■	■	
Multi-tariff (internal clock)			4		4	4	4	4	
Multi-tariff (external control)			4		2	2	2	2	
Measurement display (no. of line)	3	3	3	3	3	3	3	3	
Digital inputs	Programmable (Tariff control or WAGES input)				1	1	1	1	
	Tariff control only		2						
Digital outputs	Programmable (kWh pulse or KW overload alarm)				1	1	1		
	kWh pulse only		1						
Communication protocols	M-bus				■				
	Modbus			■		■			
	BACnet						■		
	Lon							■	
MID (legal metrology certification)		■	■		■	■	■	■	
Commercial reference numbers	A9MEM3100	A9MEM3110	A9MEM3115	A9MEM3150	A9MEM3135	A9MEM3155	A9MEM3165	A9MEM3175	
	A9MEM3200	A9MEM3210	A9MEM3215	A9MEM3250	A9MEM3235	A9MEM3255	A9MEM3265	A9MEM3275	
	A9MEM3300	A9MEM3310		A9MEM3350	A9MEM3335	A9MEM3355	A9MEM3365	A9MEM3375	

See your Schneider Electric representative for complete ordering information.

How to read table: If a cell contains a single value, that value applies to all meter models identified in the header cell(s). For cells with multiple values, the values correspond from left to right with the meter models listed from top to bottom for each associated header cell. For example, a cell with "A / B / C" means A for iEM31xx models, B for iEM32xx models, and C for iEM33xx models

Acti9 iEM3000 Series

EM3400/iEM3500 technical specifications				
	iEM3455	iEM3465	iEM33555	iEM3565
Max current	0.333V-1.0V LVCTs	0.333V-1.0V LVCTs	Rogowski coils	Rogowski coils
Meter constant LED	5000/kWh			
Pulse output frequency	Up to 500p/kWh			
Multi-tariff	4 tariffs			
Communication	Modbus	BACnet	Modbus	BACnet
DI/DO	1/1			
Network	1P+N, 3P, 3P+N support LVCTs, Rogowski coils, and VTs			
Wiring capacity	6 mm ² for currents and 4 mm ² for voltages			
Display max	LCD 99999999.9 kWh or 99999999.9 MWh			
Voltage (L-L)	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)			
IP protection	IP40 front panel and IP20 casing			
Temperature	-25°C to 70°C (K55)			
Product size	5 steps of 18 mm			
Overvoltage & measurement	Category III, Degree of pollution 2			
kWh	■			
kVARh	■			
Active power	■			
Reactive power	■			
Currents & voltages	■			
Overload alarm	■			
Hour counter	■			

See your Schneider Electric representative for complete ordering information.

Acti9 iEM3100/iEM3300 series technical specifications

Technical specifications								
	iEM3100 iEM3300	iEM3110 iEM3310	iEM3115	iEM3150 iEM3350	iEM3135 iEM3335	iEM3155 iEM3355	iEM3165 iEM3365	iEM3175 iEM3375
Max current (direct connection)	63 A for iEM3100 models, 125 A for iEM3300 models							
Meter constant LED	500/kWh							
Pulse output		Up to 1000 p/kWh			Up to 1000 p/kWh		Up to 1000 p/kWh	
Multi-tariff			4 tariffs		4 tariffs		4 tariffs	
Communication				Modbus	Modbus	Modbus	BACnet	LON
DI/DO		0/1	2/0		1/1	1/1	1/1	1/0
MID (EN50470-3)		■			■	■	■	■
Network	1P+N, 3P, 3P+N							
Accuracy class	Class 1 (IEC 62053-21 and IEC 61557-12) Class B (EN 50470-3)							
Wiring capacity	16 mm ² for iEM3100 models, 50 mm ² for iEM3300 models							
Display max.	LCD 99999999.9 kWh							
Voltage (L-L)	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)							
IP protection	IP40 front panel and IP20 casing							
Temperature	-25°C to 55°C (K55)							
Product size	5 x 18 mm for iEM3100 models, 7 x 18 mm for iEM3300 models							
Overvoltage and measurement	Category III, Degree of pollution 2							
kWh	■	■	■	■	■	■	■	■
kVARh					■	■	■	■
Active power				■	■	■	■	■
Reactive power					■	■	■	■
Currents and voltages				■	■	■	■	■
Overload alarm					■	■	■	■
Hour counter					■	■	■	■

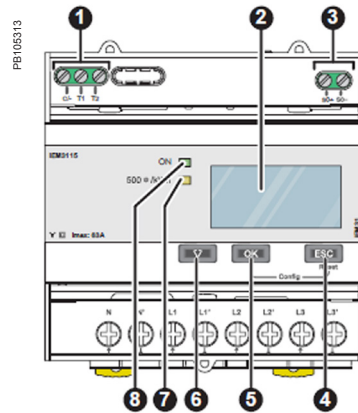
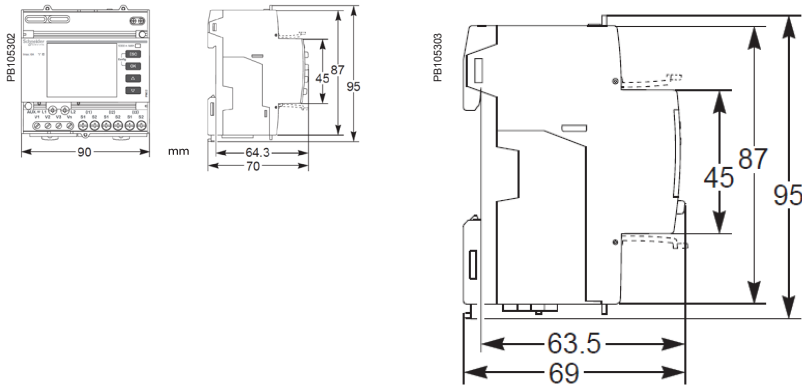
Acti9 IEM3200 series technical specifications

Technical specifications

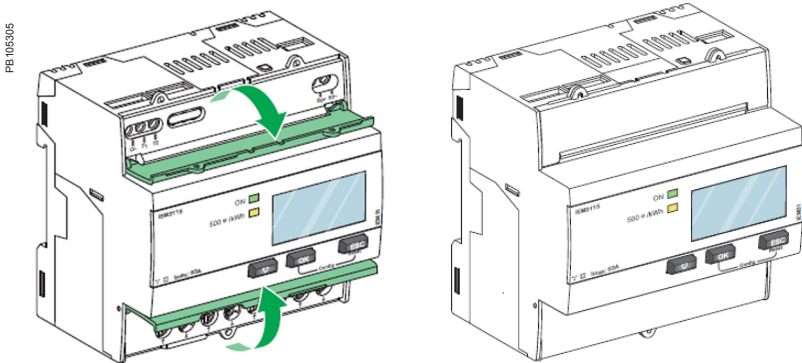
	iEM3200	iEM3210	iEM3215	iEM3250	iEM3235	iEM3255	iEM3265	iEM3275
Max current (1A/5A CT connected)	6 A							
Meter constant LED	5000/kWh							
Pulse output frequency		Up to 500p/kWh			Up to 500p/kWh	Up to 500p/kWh		
Multi-tariff			4 tariff		4 tariffs	4 tariffs		
Communication				Modbus	Modbus	Modbus	BACnet	LON
DI/DO		0/1	2/0		1/1	1/1	1/1	1/0
MID (EN50470-3) ⁽¹⁾		■	■		■	■	■	■
Network	1P+N, 3P, 3P+N support CTs			1P+N, 3P, 3P+N support CTs & VTs				
Accuracy class	Class 0.5S (IEC 62053-22 and IEC61557-12) Class C (EN50470-3) ⁽¹⁾							
Wiring capacity	6 mm ² for currents and 4 mm ² for voltages							
Display max.	LCD 99999999.9 kWh or 99999999.9 MWh							
Voltage (L-L)	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)							
IP protection	IP40 front panel and IP20 casing							
Temperature	-25°C to 55°C (K55)							
Product size	5 steps of 18 mm							
Overvoltage & measurement	Category III, Degree of pollution 2							
kWh	■	■	■	■	■	■	■	■
kVARh					■	■	■	■
Active power				■	■	■	■	■
Reactive power					■	■	■	■
Currents and voltages				■	■	■	■	■
Overload alarm					■	■	■	■
Hour counter					■	■	■	■

⁽¹⁾ If used for MID purposes, iEM32xx must use CT secondary set to 5 A.

iEM3000/iEM3200 series dimensions



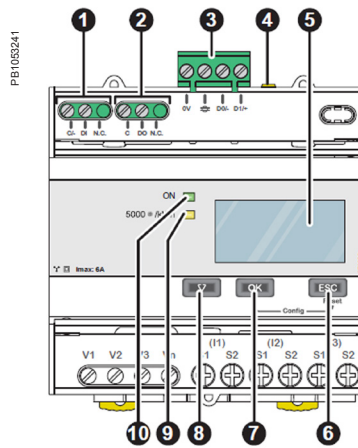
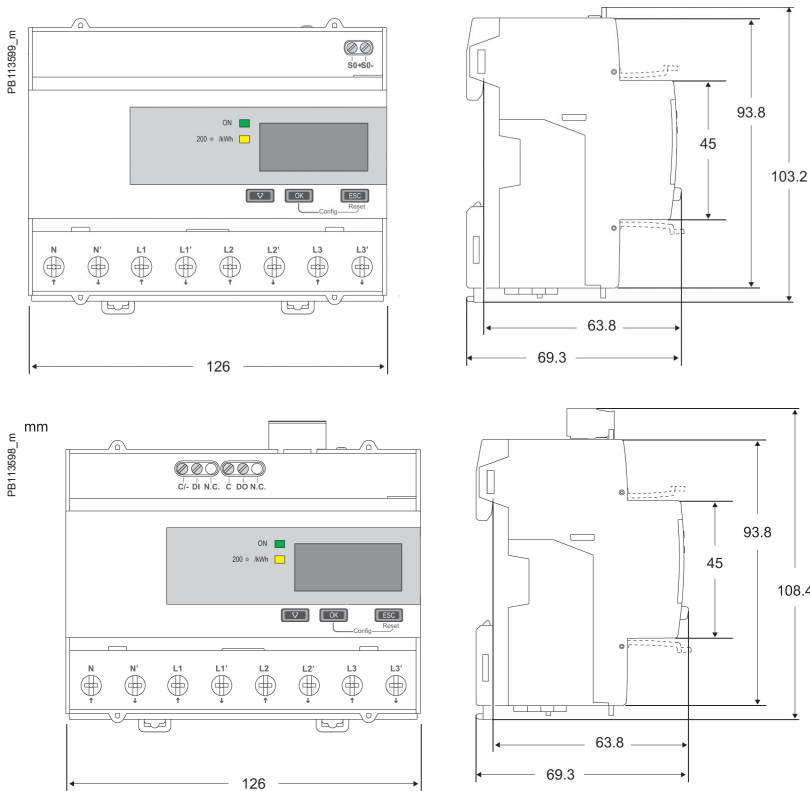
Acti9 iEM3100/iEM3200 Series front flaps open and closed



Acti9 iEM3000 Series parts

1. Digital inputs for tariff control (iEM3115 / iEM3215)
2. Display for measurement and configuration
3. Pulse out for remote transfer (iEM3110 / iEM3210)
4. ESC Cancellation
5. OK Confirmation
6. Selection
7. Flashing yellow meter indicator to check accuracy
8. Green indicator: on/off, error

iEM3300 series dimensions



Acti9 iEM3000 Series parts

1. Digital inputs for tariff control (iEM3115 / iEM3215)
2. Display for measurement and configuration
3. Pulse out for remote transfer (iEM3110 / iEM3210)
4. ESC Cancellation
5. OK Confirmation
6. Selection
7. Flashing yellow meter indicator to check accuracy
8. Green indicator: on/off, error

Please see the appropriate **Installation Guide** for accurate and complete information on the installation of this product.

Basic multi-function metering

A range of meters designed for cost management and simple network management. Affordable to buy and easy to choose, the highly-capable PowerLogic PM5000 series meters are designed to provide the best combination of features to match all your energy cost management needs.

As well as pin-point energy savings, optimal equipment efficiency and utilisation, basic multi-function meters perform a high level assessment of the power quality in an electrical network.

- PowerLogic PM3000
- PowerLogic PM5000

PB1108417

PB111770



A9MEM2000



A9MEM2000

PM3000 series

The PowerLogic PM3000 series power meters are a cost-attractive, feature-rich range of DIN rail-mounted power meters that offers all the measurement capabilities required to monitor an electrical installation.

Ideal for power metering and network monitoring applications that seek to improve the availability and reliability of your electrical distribution system, the meters are also fully capable of supporting sub-metering and cost allocation applications.

Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use
- Aggregation of energy consumption, including WAGES, and cost allocation per area, per usage, per shift or per time within the same facility
- Energy cost and usage analysis per zone, per usage or per time period to optimise energy usage

Network management applications

- Metering of electrical parameters to better understand the behaviour of your electrical distribution system



PE108447

The solution for

All markets that can benefit from a solution that includes PowerLogic PM3000 series meters:

- Buildings
- Industry
- Data centres and networks
- Infrastructure (e.g. airports, road tunnels, telecom)

Benefits

Optimise your energy consumption & enable energy efficiency practices

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Identify savings opportunities
- Use information to implement actions designed to reduce energy consumption

Competitive advantages

Connectivity advantages

- Programmable digital input
 - External tariff control signal (4 tariff)
 - Remote reset partial counter
 - External status like breaker status
 - Collect WAGES pulses
 - Programmable digital output
 - Alarm (PM3255)
 - KWh pulses
 - Graphic LCD display
 - Modbus RS-485 with screw terminals
- Multi-tariff capability
The PM3000 series allows users to arrange KWh consumption in four different registers. This can be controlled by:
- Digital inputs. Signal can be provided by PLC or utilities
 - Internal clock programmable by HMI
 - Through communication

This function allows users to:

- Make tenant metering for dual source applications to differentiate backup source or utility source
- Understand well the consumption during peak time and off-peak time, weekdays and weekends, holiday and working days etc.
- Follow up feeders consumption in line with utility tariff rates

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

- IEC 61557-12
- IEC 61326-1
- IEC 62052-11
- IEC 62053-21
- IEC 62053-22
- IEC 62053-23
- EN 50470-1
- EN 50470-3
- IEC 61010-1
- EN 55022

PM3000 series

PM3000 series feature selection				
	PM3200	PM3210	PM3250	PM3255
Performance standard				
IEC 61557-12 PMD/Sx/K55/0.5	■	■	■	■
General				
Use on LV and HV systems	■	■	■	■
Number of samples per cycle	32	32	32	32
CT input 1 A/ 5 A	■	■	■	■
VT input	■	■	■	■
Multi-tariff	4	4	4	4
Multi-lingual backlit display	■	■	■	■
Instantaneous rms values				
Current, voltage Per phase and average	■	■	■	■
Active, reactive, apparent power Total and per phase	■	■	■	■
Power factor Total and per phase	■	■	■	■
Energy values				
Active, reactive and apparent energy; import and export	■	■	■	■
Demand value				
Current, power (active, reactive, apparent) demand; present	■	■	■	■
Current, power (active, reactive, apparent) demand; peak		■	■	■
Power quality measurements				
THD Current and voltage		■	■	■
Data recording				
Min/max of the instantaneous values	■	■	■	■
Power demand logs				■
Energy consumption log (day, week, month)				■
Alarms with timestamping		5	5	15
Digital inputs/digital outputs		0/1		2/2
Communication				
RS-485 port			■	■
Modbus protocol			■	■
Commercial reference number	METSEPM3200	METSEPM3210	METSEPM3250	METSEPM3255

See your Schneider Electric representative for complete ordering information.

PM3000 series

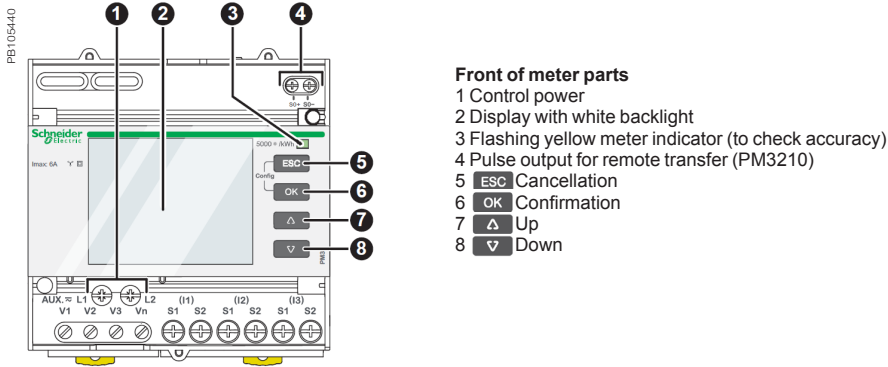
PM3000 technical specifications	
Type of measurement	True rms up to the 15th harmonic on three-phase (3P,3P+N) and single-phase AC systems. 32 samples per cycle
Measurement accuracy	
Current with x/5 A CTs	0.3 % from 0.5 A to 6 A
Current with x/1 A CTs	0.5 % from 0.1 A to 1.2 A
Voltage	0.3 % from 50 V to 330 V (Ph-N), from 80 V to 570 V (Ph-Ph)
Power factor	±0.005 from 0.5 A to 6 A with x/5 A CTs; from 0.1 A to 1.2 A with x/1 A CTs and from 0.5 L to 0.8 C
Active/Apparent Power with x/5 A CTs	Class 0.5
Active/Apparent Power with x/1 A CTs	Class 1
Reactive power	Class 2
Frequency	0.05 % from 45 to 65 Hz
Active energy with x/5 A CTs	IEC 62053-22 Class 0.5s
Active energy with x/1 A CTs	IEC 62053-21 Class 1
Reactive energy	IEC 62053-23 Class 2
Data update rate	
Update rate	1s
Input-voltage characteristics	
Measured voltage	50 V to 330 V AC (direct / VT secondary Ph-N) 80 V to 570 V AC (direct / VT secondary Ph-Ph) up to 1 MV AC (with external VT)
Frequency range	45 Hz to 65 Hz
Input-current characteristics	
CT primary	Adjustable from 1 A to 32767 A
CT secondary	1 A or 5 A
Measurement input range with x/5 A CTs	0.05 A to 6 A
Measurement input range with x/1 A CTs	0.02 A to 1.2 A
Permissible overload	10 A continuous, 20 A for 10s/hour
Control Power	
AC	100/173 to 277/480 V AC (+/-20%), 3 W/5 VA; 45 Hz to 65 Hz
DC	100 to 300 V DC, 3 W
Input	
Digital inputs (PM3255)	11 to 40 V DC, 24 V DC nominal, ≤4 mA maximum burden, 3.5 kVrms insulation
Output	
Digital output (PM3210)	Optocoupler, polarity sensitive, 5 to 30 V, 15 mA max, 3.5 kVrms insulation
Digital outputs (PM3255)	Solid state relay, polarity insensitive, 5 to 40 V, 50 mA max, 50 Ω max, 3.5 kVrms insulation

PM3000 series

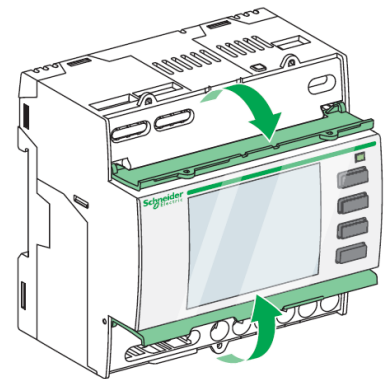
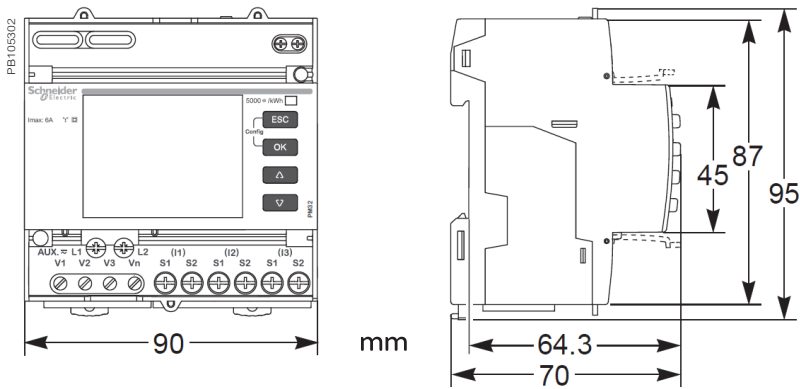
PM3000 technical specifications	
Mechanical characteristics	
Weight	0.26 kg
IP degree of protection (IEC 60529)	IP40 front panel, IP20 meter body
Dimension	90 x 95 x 70 mm
Environmental conditions	
Operating temperature	-25°C to 55°C
Storage temperature	-40°C to 85°C
Humidity rating	5 to 95% RH at 50°C (non-condensing)
Pollution degree	2
Metering category	III, for distribution systems up to 277/480 V AC
Dielectric withstand	As per IEC 61010-1, Doubled insulated front panel display
Altitude	3000 m max
Electromagnetic compatibility	
Electrostatic discharge	Level IV (IEC 61000-4-2)
Immunity to radiated fields	Level III (IEC 61000-4-3)
Immunity to fast transients	Level IV (IEC 61000-4-4)
Immunity to surge	Level IV (IEC 61000-4-5)
Conducted immunity	Level III (IEC 61000-4-6)
Immunity to power frequency magnetic fields	0.5mT (IEC 61000-4-8)
Conducted and radiated emissions	Class B (EN 55022)
Safety	
	CE as per IEC 61010-1★
Communication	
RS-485 port	Half duplex, from 9600 up to 38400 baud, Modbus RTU (double insulation)
Display characteristics	
Dimensions (VA)	43 mm x 34.6 mm
Display resolution	128 x 96 dots
Standard compliance	
	IEC 61557-12, EN 61557-12 IEC 61010-1, UL 61010-1 IEC 62052-11, IEC 62053-21, IEC 62053-22, IEC 62053-23 EN 50470-1, EN 50470-3

★ Protected throughout by double insulation

PM3200 series front of meter

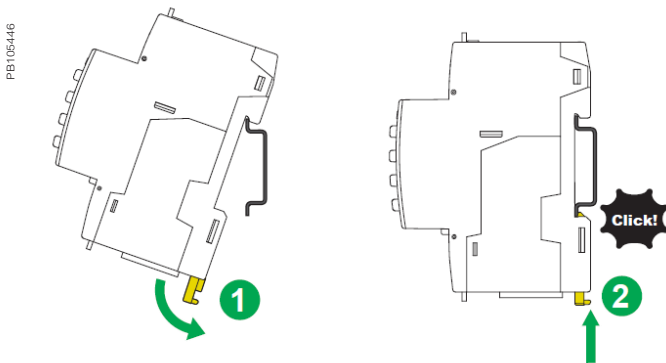


PM3200 series dimensions



PM3200 top and lower flaps

PM3200 series easy installation



Please see the appropriate **Installation Guide** for accurate and complete information on the installation of this product.

PM5000 series

The PowerLogic PM5000 series power meters are the new benchmark in affordable, precision metering.

The value you want, the precision you need. Compact, affordable power meters with high-end cost capabilities and basic mobile energy management.

Applications

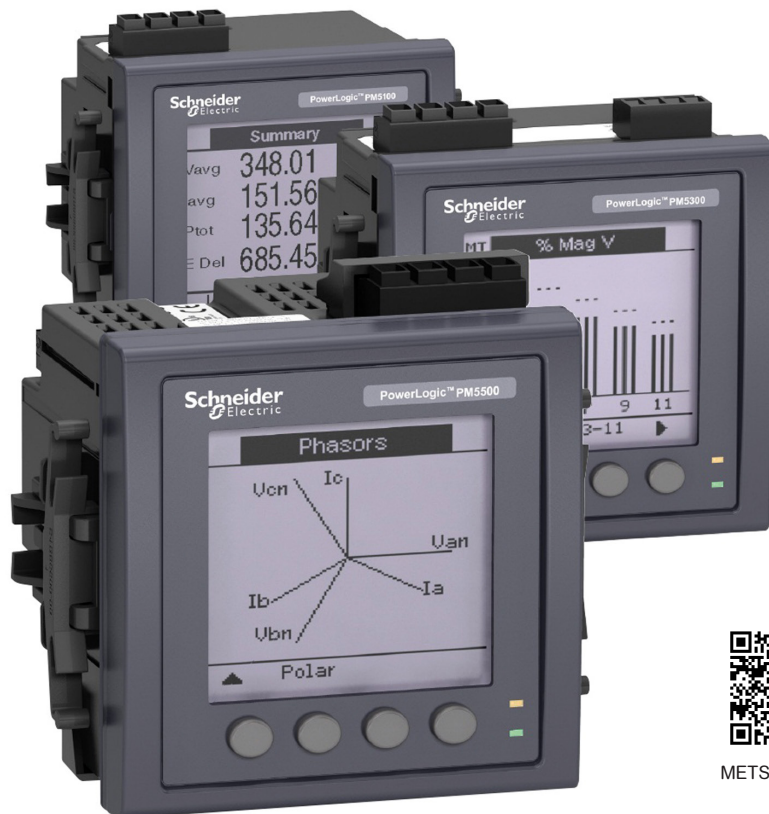
Capable of essential cost management:

- Sub-billing/tenant metering
- Equipment sub-billing
- Energy cost allocation

Also ideal for electrical network management:

- Track real-time power conditions
- Monitor control functions
- Provide basic power quality values
- Detect and capture voltage sag and swell events
- Monitor residual current
- Analyze equipment and network status
- BACnet/IP, Ethernet/IP, and DNP3.0 protocol support

PB118061



METSEPM5100

The solution for

Markets that can benefit from a solution that includes PowerLogic PM5000 series meters:

- Buildings
- Industry
- Healthcare
- Data centre and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering

End users' benefit

- Ease of use
- Precision metering & sub-billing
- Billing flexibility
- Comprehensive, consistent and superior performance
- Maximize uptime, eliminate faults, and enhance safety

Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- Power quality analysis
- Load management combined with alarm and timestamping
- High performance and accuracy
- Residual Current Monitoring
- Voltage sag and swell detection with waveform capture
- MID ready compliance for legal billing application
- BACnet/IP, Ethernet/IP, and DNP3.0 protocol support

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimize electrical asset performance.

Conformity of standards

- IEC 61557-12
- IEC 62053-22
- IEC 62053-24
- IEEE 802.3
- EN 50470-1
- EN 50470-3
- IEC 61010-1
- IEC 61326-1
- CISPR22 Class B
- ODVA certification
- ANSI C12.1-2008 (PM55xx)
- ANSI C12.20-210 0.2 & 0.5 (PM55xx)

PM5000 series

PM5000 series feature selection

	PM5100		PM5300					
	PM5100	PM5110	PM5310	PM5310R	PM5320	PM5320R	PM5330	PM5340
Installation								
Fast installation, panel mount with integrated display	■	■	■	■	■	■	■	■
Fast installation, DIN rail mountable	-	-	-	-	-	-	-	-
Accuracy	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S
Display								
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	■	■	■	■	■	■	■
Power and energy metering								
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■	■
Multi-tariff	-	-	4	4	4	4	4	4
Power quality analysis								
THD, thd, TDD	■	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	15th	15th	31st	31st	31st	31st	31st	31st
Waveform capture & sag/swell detection	-	-	-	-	-	-	-	-
I/Os and relays								
I/Os	1DO	1DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO
Relays	0	0	0	0	0	0	2	2
Analog inputs								
Residual Current inputs								
Alarms and control								
Alarms	33	33	35	35	35	35	35	35
Set point response time, seconds	1	1	1	1	1	1	1	1
Single and multi-condition alarms	-	-	■	■	■	■	■	■
Boolean alarm logic	-	-	-	-	-	-	-	-
Memory for data logging	-	-	256KB	256KB	256KB	256KB	256KB	256KB
Communications								
Serial ports with modbus protocol	-	1	1	1	-	-	1	-
Ethernet port with Modbus TCP protocol	-	-	-	-	1	1	-	1
BACnet/IP protocol	-	-	-	-	■	■	-	■
Ethernet/IP protocol	-	-	-	-	-	-	-	-
DNP3.0 over Ethernet	-	-	-	-	-	-	-	-
Onboard web server with web pages	-	-	-	-	-	-	-	-
Serial to Ethernet gateway	-	-	-	-	-	-	-	-
MID ready compliance, EN 50470-1/3, Annex B & Annex D Class C	-	PM5111	-	-	-	-	PM5331	PM5341
Short ref. numbers	PM5100	PM5110	PM5310	PM5310R	PM5320	PM5320R	PM5330	PM5340

(See table below for complete commercial reference numbers)

★ 2 Ethernet ports for daisy chain, one IP address. NOTE: PM5310R and PM5320R must be used with Schneider Electric's "Quick Click" 3-in-1 LVCTs

PM5000 series

PM5000 series feature selection										
	PM5500					PM5600			PM5700	
	PM5560	PM5563	PM5563RD	PM5570	PM5580	PM5650	PM5660	PM5661	PM5760	PM5761
Installation										
Fast installation, panel mount with integrated display	■	–	–	■	■	■	■	■	■	■
Fast installation, DIN rail mountable	–	■	■	–	■	■	■	■	■	■
Accuracy	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S
Display										
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	■	■	■	■	■	■	■	■	■
Power and energy metering										
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■	■	■	■
Multi-tariff	8	8	8	8	8	8	8	8	8	8
Power quality analysis										
THD, thd, TDD	■	■	■	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	63rd	63rd	63rd	63rd	63rd	63rd	63rd	63rd	63rd	63rd
Waveform capture & sag/swell detection	–	–	–	8 cycles @ 128 cycles/sec	–	–	–	–	8 cycles @ 128 cycles/sec	–
I/Os and relays										
I/Os	4DI/2DO	4DI/2DO	4DI/2DO	2DI/2DO	4DI/2DO	2DI/2DO	4DI/2DO	4DI/2DO	2DI/2DO	4DI/2DO
Relays	0	0	0	0	0	0	0	0	0	0
Analog inputs	0	0	0	2	0	0	0	0	0	0
Residual Current inputs	0	0	0	0	0	2	0	0	2	0
Alarms and control										
Alarms	52	52	52	52	52	52	52	52	52	52
Set point response time, seconds	1	1	1	1	1	1	1	1	1	1
Single and multi-condition alarms	■	■	■	■	■	■	■	■	■	■
Boolean alarm logic	■	■	■	■	■	■	■	■	■	■
Memory for data logging	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB
Communications										
Serial ports with modbus protocol	1	1	1	1	1	1	1	1	1	1
Ethernet port with Modbus TCP protocol	2★	2★	2★	2★	2★	2★	2★	2★	2★	2★
BACnet/IP protocol	■	■	■	■	■	■	■	■	■	■
Ethernet/IP protocol	■	■	■	■	■	■	■	■	■	■
DNP3.0 over Ethernet	■	■	■	■	■	■	■	■	■	■
Onboard web server with web pages	■	■	■	■	■	■	■	■	■	■
Serial to Ethernet gateway	■	■	■	■	■	■	■	■	■	■
MID ready compliance, EN 50470-1/3, Annex B & Annex D Class C	PM5561	–	–	–	–	–	–	PM5661	–	PM5761
Short ref. numbers	PM5560	PM5563	PM5563RD	PM5650	PM5580	PM5650	PM5660	PM5661	PM5760	PM5761
(See table below for complete commercial reference numbers)										

★ 2 Ethernet ports for daisy chain, one IP address. NOTE: PM5310R and PM5320R must be used with Schneider Electric's "Quick Click" 3-in-1 LVCTs

PM5000 series

PM5000 technical specifications		PM5100	PM5300	PM5500	PM5600	PM5700
Use on LV and MV systems				■		
Basic metering with THD and min/max readings				■		
Instantaneous rms values						
Current	per phase, neutral and ground (PM5500)			■		
Voltage	Total, per phase L-L and L-N			■		
Frequency				■		
Real, reactive, and apparent power	Total and per phase				Signed, Four Quadrant	
True Power Factor	Total and per phase				Signed, Four Quadrant	
Displacement PF	Total and per phase				Signed, Four Quadrant	
% Unbalanced I, V L-N, V L-L				■		
Direct monitoring of neutral current					■	
Energy values						
Accumulated Active, Reactive and Apparent Energy				Received/Delivered; Net and absolute; Time Counters		
Demand value						
Current average			Present, Last, Predicted, Peak, and Peak Date Time			
Active power			Present, Last, Predicted, Peak, and Peak Date Time			
Reactive power			Present, Last, Predicted, Peak, and Peak Date Time			
Apparent power			Present, Last, Predicted, Peak, and Peak Date Time			
Peak demand with timestamping D/T for current and powers				■		
Demand calculation	Sliding, fixed and rolling block, thermal methods			■		
Synchronisation of the measurement window to input, communication command or internal clock				■		
Settable Demand intervals				■		
Demand calculation for Pulse input (WAGES)					■	
Other measurements						
I/O timer				■		
Operating timer				■		
Load timer				■		
Alarm counters and alarm logs				■		
Power quality measurements						
THD, thd (Total Harmonic Distortion) I, VLN, VLL				I,VLN, VLL		
TDD (Total Demand Distortion)				■		
Individual harmonics (odds)		15th	31st		63rd	
Neutral Current metering with ground current calculation					■	
Waveform capture and sag/swell detection					8 cycles @ 128 cycles/sec	
Data recording						
Min/max of instantaneous values, plus phase identification★				■		
Alarms with 1s timestamping★				■		
Data logging			2 fixed parameters kWh and kVAh with configurable interval & duration	Up to 14 selectable parameters with configurable interval and duration (e.g. 6 parameters for 90 days at 15 minutes interval)		
Memory capacity			256 KB	1.1 MB		
Min/max log		■	■	■		
Maintenance, alarm and event logs			■	■		
Customisable data logs				■		

PM5000 series

PM5000 technical specifications		PM5100	PM5300	PM5500	PM5600	PM5700
Inputs / Outputs / Mechanical Relays						
Digital inputs			2	2 with WAGES for PM5560, PM5563, PM5580, PM5650 4 with WAGES for PM5570, PM5660, PM5760		
Digital outputs		1 (kWh only)	2 (configurable)	2 (configurable)		
Form A Relay outputs			2			
Analog inputs					2 for PM5570	
Residual Current inputs					2 for PM5660	2 for PM5760
Timestamp resolution in seconds		1	1	1	1	
Whetting voltage			■			
Type of measurement: True rms on three-phase (3P, 3P + N)		64 samples per cycle		128 samples per cycle		
Measurement accuracy	IEC 61557-12	PMD/[SD][SS]/K70/0.5		PMD/[SD][SS]/K70/0.2		
	Active Energy	Class 0.5S as per IEC 62053-22		Class 0.2S as per IEC 62053-22		
	Reactive Energy	Class 2S as per IEC 62053-24		Class 2S as per IEC 62053-24		
				Class 1S for PM55xx, PM56xx, PM57xx		
	Active Power	Class 0.5 as per IEC 61557-12		Class 0.2 as per IEC 61557-12		
	Apparent Power	Class 0.5 as per IEC 61557-12				
	Current, Phase	Class 0.5 as per IEC 61557-12 ±0.15 %				
	Voltage, L-N	Class 0.5 as per IEC 61557-12 ±0.1 %				
	Frequency	±0.05 %				
	MID Directive EN 50470-1, EN 50470-3	Annex B and Annex D (Optional model references) Class C				
Input-voltage (up to 1.0 MV AC max, with voltage transformer)	Nominal Measured Voltage range	20 V L-N / 35 V L-L to 400 V L-N /690 V L-L absolute range 35 V L-L to 760 V L-L		20 V L-N / 20 V L-L to 400 V L-N /690 V L-L absolute range 20 V L-L to 828 V L-L		
	Impedance	5 MΩ				
	F nom	50 or 60 Hz ±5 %		50 or 60 Hz ±10 %		
Input-current (configurable for 1 or 5 A secondary CTs)	I nom	5 A				
	Measured Amps with over range and Crest Factor	Starting current: 5 mA Operating range: 50 mA to 8.5 A		Starting current: 5 mA Operating range: 50 mA to 10 A		
	Withstand	Continuous 20 A, 10 s/hr 50 A, 1s/hr 500 A				
	Impedance	< 0.3 mΩ				
	F nom	50 or 60 Hz ±5 %		50 or 60 Hz ±10 %		
	Burden	<0.026 VA at 8.5 A				
AC control power	Operating range	100 - 277 V AC L-N / 415 V L-L +/-10 % CAT III 300V class per IEC 61010		100-480 V AC ±10 % CAT III 600V class per IEC 61010		
	Burden	<5 W,11 VA at 415V L-L		<5W/16.0 VA at 480 V AC		
	Frequency	45 to 65 Hz				
	Ride-through time	80 mS typical at 120V AC and max burden. 100 mS typical at 230 V AC and max burden 100 mS typical at 415 V AC and max burden		35 ms typical at 120 V L-N and max burden 129 ms typical at 230 V L-N and max burden		
DC control power	Operating range	125-250 V DC ±20 %				
	Burden	<4 W at 250 V DC		typical 3.1W at 125 V DC, max. 5W		
	Ride-through time	50 mS typical at 125 V DC and max burden				
LV DC control power	20-60 V DC ±10 % CAT III Burden 4.1 W max.			■ PM5580		

PM5000 series

PM5000 technical specifications			PM5100	PM5300	PM5500	PM5600	PM5700
Outputs	Relay	Max output frequency	0.5 Hz maximum (1 second ON / 1 second OFF - min times)				
		Switching current	250 V AC at 8.0 Amps, 25 k cycles, resistive 30 V DC at 2.0 Amps, 75 k cycles, resistive 30 V DC at 5.0 Amps, 12.5 k cycles, resistive				
		Isolation	2.5 kV rms				
	Digital outputs	Digital outputs	1	2	2	2	2
		Max load voltage	40 V DC		30 V AC / 40 V DC PM5570, PM5560, PM5561, PM5760, PM5761		
		Max load current	20 mA		125 mA		
		On Resistance	50 Ω max		8 Ω		
		Meter constant	from 1 to 9,999,999 pulses per kWh				
		Pulse width for Digital Output	50 % duty cycle				
		Pulse frequency for Digital Output	25 Hz max.				
		Leakage current	0.03 micro Amps		1 micro Amps		
	Optical outputs	Isolation	5 kV rms		2.5 kV rms		
		Pulse width (LED)	200 ms				
		Pulse frequency	50 Hz. max.		2.5 kHz. max		
	Status Inputs	Meter constant	from 1 to 9,999,999 pulses per k_h				
ON Voltage		18.5 to 36 V DC		30 V AC / 60 V DC max			
OFF Voltage		0 to 4 V DC					
Input Resistance		110 k Ω		100 k Ω			
Maximum Frequency		2 Hz (T ON min = T OFF min = 250 ms)		25 Hz (T ON min = T OFF min = 20 ms)			
Response Time		20 ms		10 ms			
Opto Isolation		5 kV rms		2.5 kV rms			
Wetting output		24 V DC/ 8 mA max					
Analog inputs	Input Burden	2 mA @ 24 V DC		2 mA @ 24 V AC/DC			
		4 - 20 mA DC (nominal) Accuracy: 1 % of full-scale reading < 20 ohm Operating voltage: 24 V DC max					
Residual Current inputs			5 uA to 1,200 uA (nominal), 1,500 uA max (continuous) Input type: AC 45 to 65 Hz Burden: 150 ohms Default toroid: 1000 turns				
Mechanical characteristics							
Product weight	380 g		430 g	450 g	450 g	450 g	
IP degree of protection (IEC 60529)	IP52 front display, (IP54 for PM53xx and PM55xx), IP30 meter body						
Dimensions W x H x D [protrusion from cabinet]	96 x 96 x 72 mm (77 mm for PM5500) (depth of meter from housing mounting flange) [13 mm]						
Mounting position	Vertical						
Panel thickness	6 mm maximum						
Environmental characteristics							
Operating temperature	Meter	-25°C to 70°C					
	Display (Display functions to -25° with reduced performance)	-25°C to 70°C					
Storage temp.	-40°C to 85°C						
Humidity range	5 to 95 % RH at 50°C (non-condensing)						
Pollution degree	2						
Altitude	2000 m CAT III / 3000 m CAT II			3000 m max. CAT III			

PM5000 technical specifications				
Electromagnetic compatibility				
Harmonic current emissions	IEC 61000-3-2			
Flicker emissions	IEC 61000-3-3			
Electrostatic discharge	IEC 61000-4-2			
Immunity to radiated fields	IEC 61000-4-3			
Immunity to fast transients	IEC 61000-4-4			
Immunity to surge	IEC 61000-4-5			
Conducted immunity 150 kHz to 80 MHz	IEC 61000-4-6			
Immunity to magnetic fields	IEC 61000-4-8			
Immunity to voltage dips	IEC 61000-4-11			
Radiated emissions	FCC part 15, EN 55022 Class B			
Conducted emissions	FCC part 15, EN 55022 Class B			
Safety	PM5100	PM5300	PM5500	PM5600
Europe	CE, as per IEC 61010-1 Ed. 3, IEC 62052-11 & IEC 61557-12			
U.S. and Canada	cULus as per UL 61010-1 (3rd Edition)			
Measurement category (Voltage & Current inputs)	CAT III up to 400 V L-N / 690 V L-L			
Dielectric	As per IEC/UL 61010-1 Ed. 3			
Protective Class	II, Double insulated for user accessible parts			
Communication				
RS-485 port Modbus RTU, Modbus ASCII (7 or 8 bit), JBUS	2-Wire, 9600,19200 or 38400 baud, Parity - Even, Odd, None, 1 stop bit if parity Odd or Even, 2 stop bits if None; (Optional in PM51x and PM53x)			
Ethernet port: 10/100 Mbps; Modbus TCP/IP		1 Optional	2 (daisy chain only, 1 IP address)	
Native Ethernet/IP & DNP3.0 over Ethernet			Yes	Yes
Native BACnet/IP Support		Yes	Yes	Yes
Firmware and language file update	Meter firmware update via the communication ports			
Isolation	2.5 kVrms, double insulated			
Human machine interface				
Display type	Monochrome Graphics LCD			
Resolution	128 x 128			
Backlight	White LED			
Viewable area (W x H)	67 x 62.5 mm			
Keypad	4-button			
Indicator Heartbeat / Comm activity	Green LED			
Energy pulse output / Active alarm (configurable)	Optical, amber LED			
Wavelength	590 to 635 nm			
Maximum pulse rate	2.5 kHz			

PM5xxx series commercial reference numbers

Comm ref numbers	Description
METSEPM5100	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 15th harmonic, no communication, 1DO
METSEPM5110	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 15th harmonic, RS-485 Modbus, 1DO
METSEPM5111	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 15th harmonic, RS-485 Modbus, 1DO, MID cert.
METSEPM5310	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO
METSEPM5310R	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, RS-485 Modbus, 2DI/2DO
METSEPM5320	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO
METSEPM5320R	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, Ethernet, 2DI/2DO
METSEPM5330	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay
METSEPM5331	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay, MID cert.
METSEPM5340	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay
METSEPM5341	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay, MID cert.
METSEPM5560	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 4DI/2DO
METSEPM5561	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, MID cert.
METSEPM5562	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, HW lockable, 4DI/2DO
METSEPM5562MC	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, factory sealed, 4DI/2DO
METSEPM5563	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, DIN mount, no display, 4DI/2DO
METSEPM5563RD	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, DIN mount, remote display, 4DI/2DO
METSEPM5650	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, waveform capture and sag/swell, 1.1 MB, Modbus and Ethernet, 4DI/2DO
METSEPM5570	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 2DI/2DO/2AI
METSEPM5580	Power Meter range 77 mm depth, control power 24-60 VDC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 4DI/2DO
METSEPM5660	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM
METSEPM5661	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM, MID
METSEPM5760	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, waveform capture and sag/swell, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM
METSEPM5761	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, waveform capture and sag/swell, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM, MID cert.
Residual Current Monitoring Toroids (Vigirex)	
Closed Toroids, A Type	
50437	TA30 - 30 mm inside diameter, le (A) 65, 1000 turns
50438	PA50 - 50 mm inside diameter, le (A) 85, 1000 turns
50439	IA80 - 80 mm inside diameter, le (A) 160, 1000 turns
50440	MA120 - 120 mm inside diameter, le (A) 250, 1000 turns
50441	SA200 - 200 mm inside diameter, le (A) 400, 1000 turns
50442	GA300 - 300 mm inside diameter, le (A) 630, 1000 turns
Accessories for Closed Toroids	
56055	Magnetic ring for TA30 toroid
56056	Magnetic ring for PA50 toroid
56057	Magnetic ring for IA80 toroid
56058	Magnetic ring for MA120 toroid
Split Toroids, OA Type	
50420	TOA80 - 80 mm inside diameter, le (A) 160, 1000 turns
50421	TOA120 - 120 mm inside diameter, le (A) 250, 1000 turns
Rectangular Sensors	
56053	L1 - 280 x 115 mm inside diameter, le (A) 1600, 1000 turns
56054	L2 - 470 x 160 mm inside diameter, le (A) 3200, 1000 turns

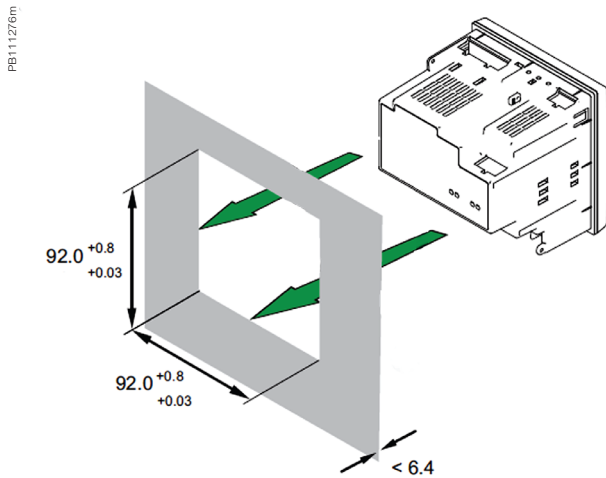
See your Schneider Electric representative for complete ordering information.

PM5xxR series commercial reference numbers

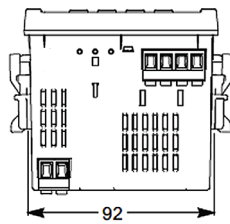
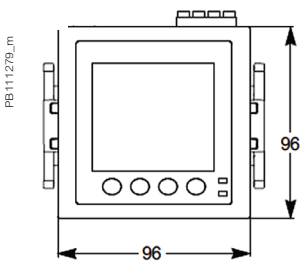
Comm. reference number	Description
0.333V 3-in-1 CTs with RJ45 for PM53x0R	
METSECTV25006	LVCT SolidC 3in1 RJ45 25mmCtr 60A:1/3V
METSECTV25010	LVCT SolidC 3in1 RJ45 25mmCtr 100A:1/3V
METSECTV25013	LVCT SolidC 3in1 RJ45 25mmCtr 125 A:1/3V
METSECTV25016	LVCT SolidC 3in1 RJ45 25mmCtr 160A:1/3V
METSECTV35006	LVCT SolidC 3in1 RJ45 35mmCtr 60A:1/3V
METSECTV35010	LVCT SolidC 3in1 RJ45 35mmCtr 100A:1/3V
METSECTV35012	LVCT SolidC 3in1 RJ45 35mmCtr 120A:1/3V
METSECTV35013	LVCT SolidC 3in1 RJ45 35mmCtr 125 A:1/3V
METSECTV35015	LVCT SolidC 3in1 RJ45 35mmCtr 150A:1/3V
METSECTV35016	LVCT SolidC 3in1 RJ45 35mmCtr 160A:1/3V
METSECTV35020	LVCT SolidC 3in1 RJ45 35mmCtr 200A:1/3V
METSECTV35025	LVCT SolidC 3in1 RJ45 35mmCtr 250A:1/3V
METSECTV45025	LVCT SolidC 3in1 RJ45 45mmCtr 250A:1/3V
METSECTV45030	LVCT SolidC 3in1 RJ45 45mmCtr 300A:1/3V
METSECTV45040	LVCT SolidC 3in1 RJ45 45mmCtr 400A:1/3V
METSECTV45050	LVCT SolidC 3in1 RJ45 45mmCtr 500A:1/3V
METSECTV45060	LVCT SolidC 3in1 RJ45 45mmCtr 600A:1/3V
METSECTV45063	LVCT SolidC 3in1 RJ45 45mmCtr 630A:1/3V
METSECTV29006	LVCT SolidC 3in1 RJ45 29mmCtr 60A:1/3V
METSECTV29010	LVCT SolidC 3in1 RJ45 29mmCtr 100A:1/3V
METSECTV29012	LVCT SolidC 3in1 RJ45 29mmCtr 120A:1/3V
METSECTV29013	LVCT SolidC 3in1 RJ45 29mmCtr 125 A:1/3V
METSECTV29015	LVCT SolidC 3in1 RJ45 29mmCtr 150A:1/3V
METSECTV29016	LVCT SolidC 3in1 RJ45 29mmCtr 160A:1/3V
METSECTV29020	LVCT SolidC 3in1 RJ45 29mmCtr 200A:1/3V
METSECTV70080	LVCT SolidC 3in1 RJ45 70mmCtr 800A:1/3V
METSECTV70100	LVCT SolidC 3in1 RJ45 70mmCtr 1000A:1/3V
METSECTV70125	LVCT SolidC 3in1 RJ45 70mmCtr 1250A:1/3V
Cables	
DCEPCURJX5GYM	Category 5e, Patch Cord, UTP, 0.5 M, Grey
DCEPCURJ01GYM	Category 5e, Patch Cord, UTP, 1 M, Grey
DCEPCURJ02GYM	Category 5e, Patch Cord, UTP, 2 M, Grey
DCEPCURJ03GYM	Category 5e, Patch Cord, UTP, 3 M, Grey
DCEPCURJ05GYM	Category 5e, Patch Cord, UTP, 5 M, Grey
DCEPCURJ10GYM	Category 5e, Patch Cord, UTP, 10 M, Grey
Other related products	
METSEPM5RD	Remote display for PM5563
METSEPM51HK	Hardware kit for PM51xx
METSEPM53HK	Hardware kit for PM53xx
METSEPM51_3RSK	Revenue sealing kit for PM51XX & PM53XX
METSEPM55RSK	Revenue sealing kit for PM55XX
METSEPM55HK	Hardware kit for PM55xx
METSEPM5CAB3	Remote Display cable

See your Schneider Electric representative for complete ordering information.

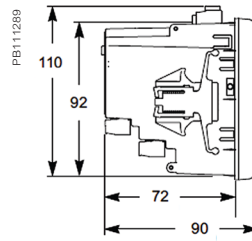
PM5000 Series meter flush mounting



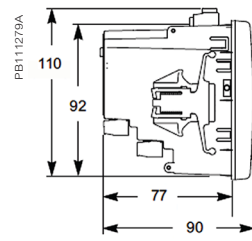
PM5000 series meter dimensions



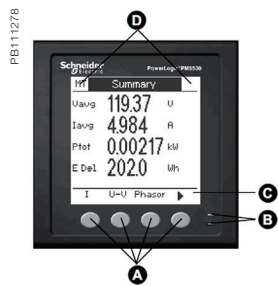
PM5000



PM5100 / PM5300

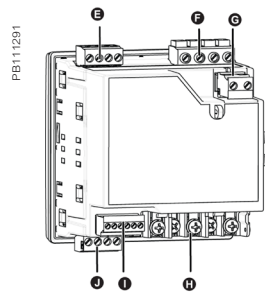


PM5500 / PM5600



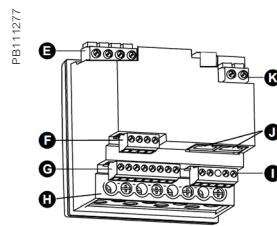
PM5000 meter parts

- A Menu selection buttons
- B LED indicators
- C Navigation or menu selections
- D Maintenance and alarm notification area



PM5100 / PM5300 meter parts

- E Relay output (PM5300 only)
- F Voltage inputs
- G Control power
- H Current inputs
- I Status inputs / digital outputs
- J Communications port: Ethernet (PM5300 only) or RS-485



PM5500

PM5500 / PM5600 / PM5700 meter parts

- E Voltage inputs
- F RS-485 comms
- G Digital inputs / Analog inputs / Residual Current inputs
- H Current inputs
- I Digital outputs
- J Ethernet ports
- K Control power

Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

Communications & Gateways

This is a part of your metering solution which provides an interface between energy monitoring software and your metering points via GPRS, wired connection and Wi-Fi. We also offer the option of an integrated gateway-server which provides an all-in-one energy management solution. They are fully capable of supporting EcoStruxure™ Power Management software.

Communications & Gateways

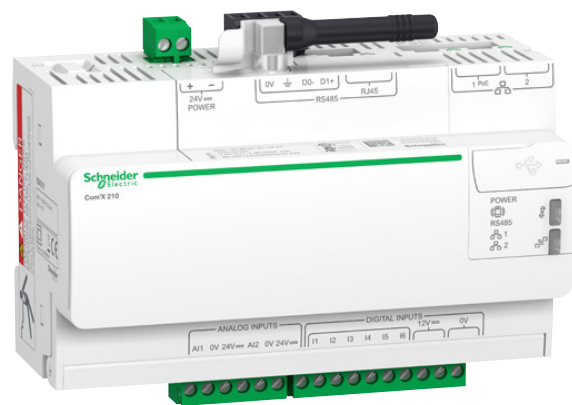
Data loggers, gateways and remote terminal units help measured data reach the power monitoring software for analyses.

They are fundamental components in most power and energy management system architectures.

- Link150 Ethernet gateway
- Data logger Com'X 210
- Data logger Com'X 510



EGX150



EBX210

PB115427

PB114328

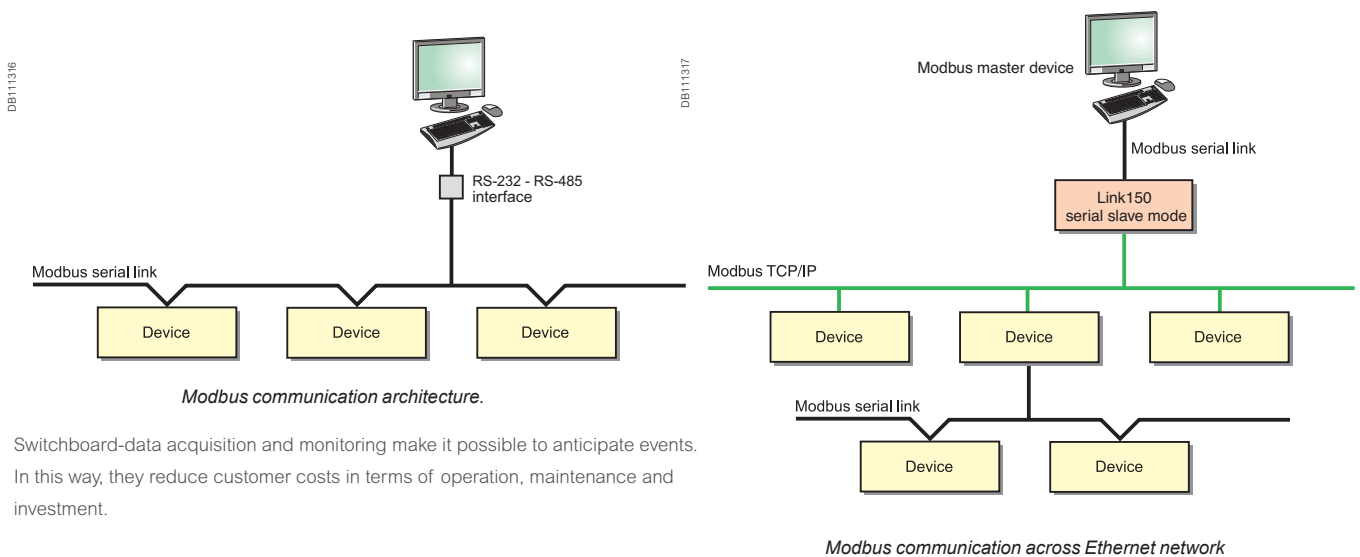
Serial link

With Schneider Electric’s advanced communication technology, all forms of power monitoring data can be accessed remotely, quickly and easily.

In all architectures, the communication interface serves as the link between the installation devices and the PC running the operating software. It provides the physical link and protocol adaptation. Adaptation is required because the communication systems used by the PC (Modbus via RS-232 and/or Ethernet) are generally not those used by the installation devices (e.g. the Modbus protocol via RS-485).

Dedicated application software prepares the information for analysis under the best possible conditions.

In addition, an Modbus-Ethernet gateway in serial port slave mode allows a serial Modbus master device to access information from other devices across a Modbus TCP/IP network.

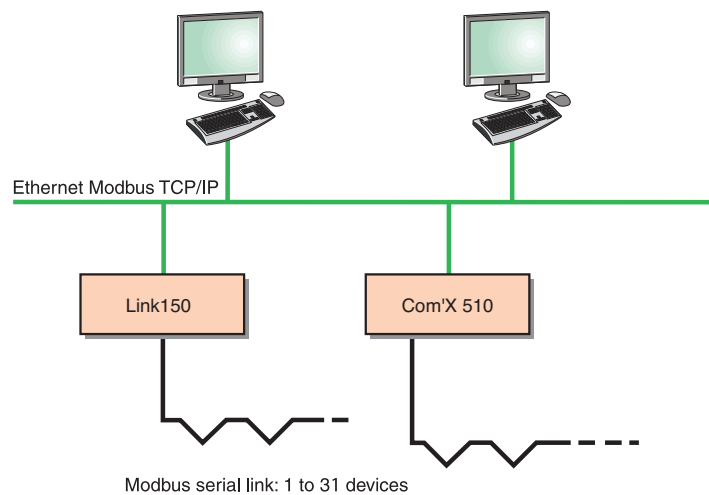


Switchboard-data acquisition and monitoring make it possible to anticipate events. In this way, they reduce customer costs in terms of operation, maintenance and investment.

Ethernet link

Using modern web technologies, the operator can access information from monitoring and protection devices using any PC connected to the network, with all the required security.

The Ethernet Modbus-Ethernet gateway* or the integrated gateway-servers* provide connectivity between Modbus RS-485 and Ethernet Modbus TCP/IP.



Ethernet communication architecture.

The services available with these technologies considerably simplify the creation, maintenance and operation of these supervision systems.

The application software is now standardised: the web interface into the system does not require custom web pages to be created. It is personalised by simply identifying the components in your installation and can be used as easily as any internet application.

The first step in this approach is the integrated gateway-server with HTTP pages. Power management software (EcoStruxure™ Power Monitoring Expert and EcoStruxure™ Power SCADA Operation), running on a PC, provide broader coverage for more specific need

Link150 Ethernet gateway

The Link150 gateway provides fast, reliable Ethernet connectivity in the most demanding applications, from a single building to a multi-site enterprise. This gateway supports meters, monitors, protective relays, trip units, motor controls and other devices that need to communicate data quickly and efficiently. It is your simple, cost-effective serial line to full Ethernet connectivity.

Applications

- Energy management
- Power distribution
- Building automation
- Factory automation

PB0115427



EGX150

The solution for

All markets that can benefit from a solution that includes the Link150 gateway:

- Buildings
- Data centre
- Healthcare
- Industry
- Infrastructure
- Utility

Benefits

- Easy to install and setup
- Easy to maintain
- Advanced security feature
- Compatible with Schneider Electric software offerings
- Reliable Modbus to Ethernet protocol conversion

Energy and power management software

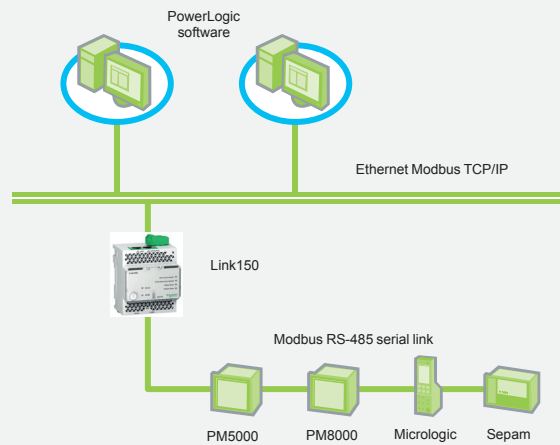
Powerlogic software is recommended as a user interface which provides access to all status and measurement information. It also prepares summary reports for energy and power management. The Link150 is compatible with

- EcoStruxure™ Power Monitoring Expert software
- EcoStruxure™ Power SCADA Operation

Conformity of standards

- EN 55022/EN 55011/ FCC Class A
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-6-2
- EN 61000-4-6
- EN 61000-4-2
- EN 61000-4-8
- EN 61000-4-3
- EN 60950

Architecture



Security

- Secure user interface including user's name and password for login
- Advanced security features to allow users to specify which Modbus TCP/IP master devices may access attached serial slave devices
- Modbus TCP/IP filtering feature
- Allows user to specify the level of access for each master device as Read-only or Full access
- Web pages provide easy configuration and setup

PB117745

Link150 Ethernet gateway

Technical specifications

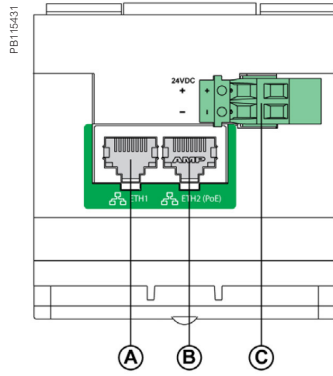
Link150	
Weight	175 g without packing
Dimensions (HxWxD)	72 x 105 x 71 mm
Mounting	DIN rail
Power-over-Ethernet (PoE)	Class 3
Power supply	24 V DC (-20/+10 %) or Power over Ethernet (PoE Class 3 IEEE 802.3 af) at 15 W
Consumption (typical)	24 V DC, 130 mA at 20°C PoE 48 V DC, 65 mA at 20°C
Ambient operating temperature	-25 to 70°C
Ambient storage temperature	-40 to 85°C
Humidity rating	5 % to 95 % relative humidity (without condensation) at +55°C
Pollution Degree	Level 2
IP Ratings	On the front panel (wall-mounted enclosure): IP4x Connectors: IP20 Other parts: IP30
Regulatory/standards compliance for electromagnetic interference	
Emissions (radiated and conducted)	EN 55022/EN 55011/FCC class A
Immunity for industrial environments:	
electrostatic discharge	EN 61000-6-2
radiated RF	EN 61000-4-2
electrical fast transients	EN 61000-4-3
surge	EN 61000-4-4
conducted RF	EN 61000-4-5
power frequency	EN 61000-4-6
magnetic field	EN 61000-4-8
Regulatory/standards compliance for safety	
Safety - IEC	IEC 60950
Safety - UL★	UL 60950 UL 61010-2-201
EMC	IEC 6100-6-2
Australia	C-tick - RCM
Sustainability	Green Premium
Serial ports	
Number of ports	2 (1 available at a time)
Types of ports	RS-232 or RS-485 (2-wire or 4-wire), depending on settings
Protocol	Modbus, Serial
Baud rates	19200 bps (factory setting), 2400 bps, 4800 bps, 9600 bps, 38400 bps, 56000 bps★★, 57600 bps★★
Maximum number of connected devices	32 (directly) 247 (indirectly)
Ethernet ports (used as a switch)	
Number of ports	2
Type of port	10/100BASE-TX (802.3af) por
Protocol	HTTP, Modbus TCP/IP, FTP, SNMP (MIB II)
Commercial ref. no.	
EGX150	Product description Link150 Ethernet Gateway

★ Dual listed for US and Canada

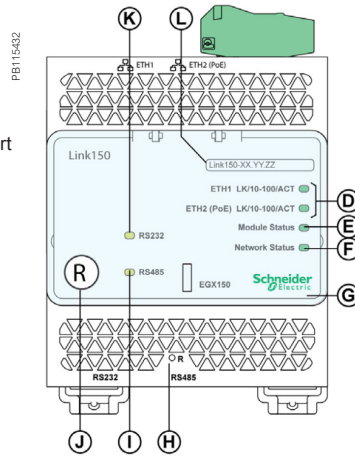
★★ Only available when Physical Interface is set to RS-232 and Transmission Mode is set to Modbus ASCII

Link150 Ethernet gateway

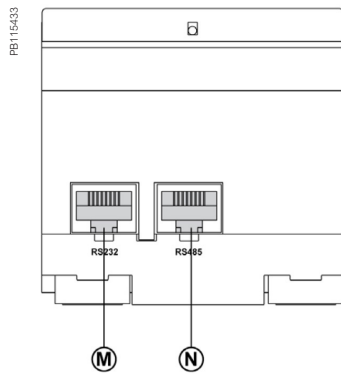
Parts



- Ⓐ Ethernet 1 communication port
- Ⓑ Ethernet 2 (PoE) communication port
- Ⓒ Midspan PoE injector

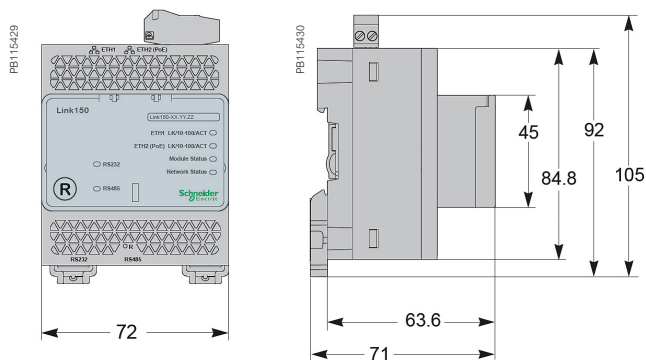


- Ⓓ Ethernet communication LEDs
- Ⓔ Module status LED
- Ⓕ Network status LED
- Ⓖ Sealable transparent cover
- Ⓗ IP reset pin
- Ⓘ RS-485 traffic status LED
- ⓵ Device soft restart button (Accessible through closed cover)
- Ⓚ RS-232 traffic status LED
- Ⓛ Device name label

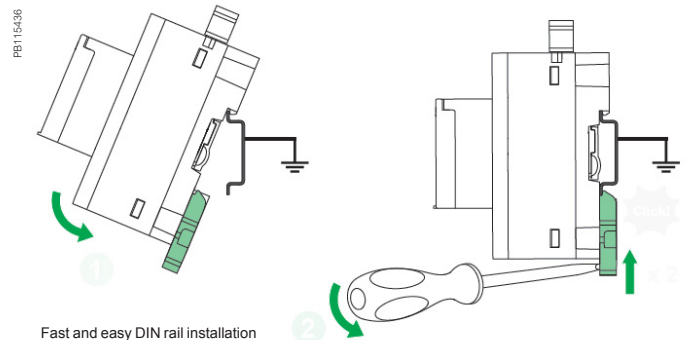


- Ⓜ RS-232 port
- Ⓝ RS-485 port

Dimensions



DIN rail mounting



Fast and easy DIN rail installation

See appropriate Installation Guide for this product.

Com'X 210

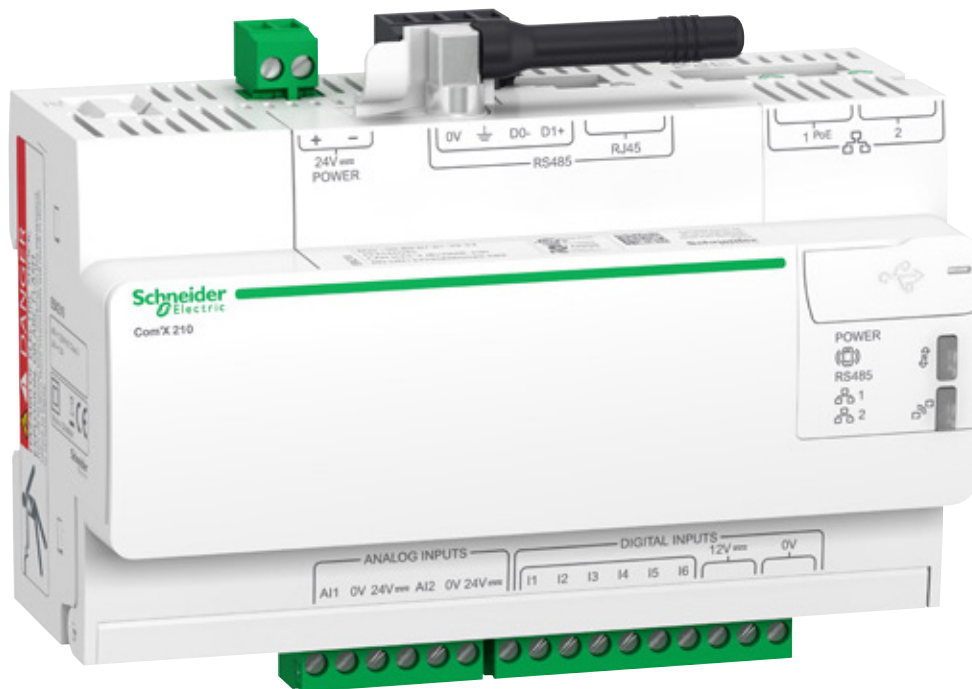
A highly flexible plug-and-play Energy Server Com'X 210 collects and stores WAGES consumptions and environmental parameters such as temperatures, humidity and CO₂ levels in a building. Data is periodically transmitted as a report to an internet database server for further processing. The Energy Server Com'X 210 not only reduces your technical complexity, but helps to manage your energy.

Applications

The quickest path to multi-site energy management and on-line services

- Delivers batches of data ready to process by EcoStruxure™ Power Management solutions and services
- Publishes logged data to the Schneider Electric cloud or another hosted platform

PB112041



EBX210

The solution for

All markets that can benefit from a solution that includes data logger Com'X 210:

- Buildings
- Industry

Benefits

- Data collection from up to 64 field devices
- Data publishing leveraging existing infrastructures, Ethernet or Wi-Fi, GPRS-ready
- Quick fitting into electrical switchboards thanks to DIN rail clipping and profile
- Quick setup and configuration thanks to intuitive HMI

Energy management solutions

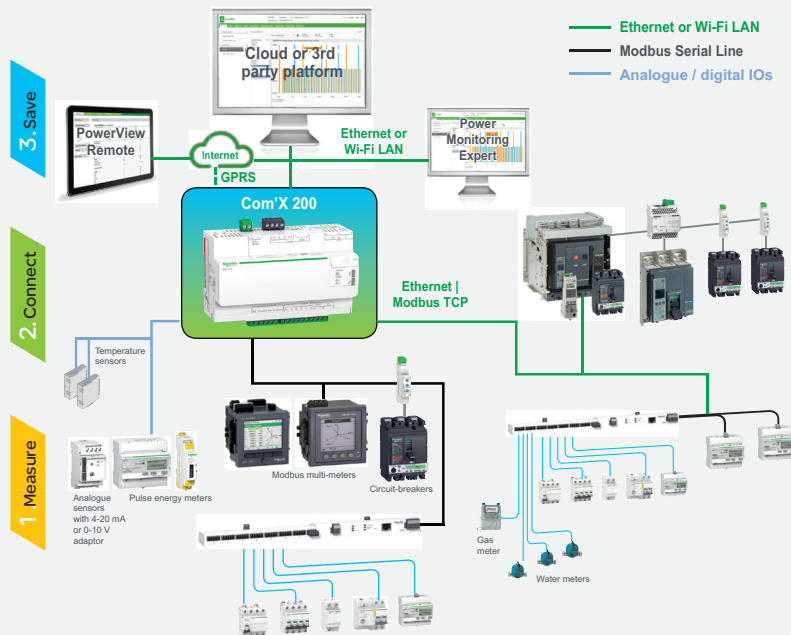
The data collected and stored by Com'X 210 can be processed and displayed as webpages through web services provided by Schneider Electric, such as EcoStruxure™ Power Management software products, or by any private energy platform.

The Com'X 210 also provides a transparent interface between Ethernet-based networks and field devices. This gateway function supports the use of monitoring software, such as EcoStruxure™ Power Monitoring Expert (PME) for data collection, trending, event management, analysis and further processing.

Conformity of standards

- EN 60950

Architecture



PB114856-200

Data collector

Collects and stores energy data from up to 64 field devices, connected to either:

- Ethernet TCP/IP field network.
- Modbus Serial line network (up to 32 devices).
- Embedded digital and analogue inputs.

“Field devices” consist of :

- PowerLogic devices for power and energy monitoring.
- Masterpact or Compact circuit-breakers for protection and monitoring.
- Acti9 protection devices, meters, remote controlled switches, etc.
- Water, Air, Gas, Electricity, and Steam (WAGES) consumption meters, from specialised manufacturers, delivering pulses as per standard (see table next page).
- Environmental sensors such as temperatures, humidity, and CO₂ levels in a building, providing analog information.

Data logging and storage capabilities include:

- Configurable logging interval, from every minute to once a week.
- Data storage duration of several weeks, depending on quantity of collected data.

Data publisher

Batches of collected data periodically transmitted to an Internet server, as:

- XML files, for processing by EcoStruxure™ Power Management software products.
- CSV files for viewing in Excel or transformed for upload into programs such as EcoStruxure™ Power Monitoring Expert or any compatible software.

Data publishing function supports 4 transfer protocols over Ethernet or Wi-Fi:

- HTTP • FTP
- HTTPS • SMTP

Additional functions

Gateway

If selected by the user, the Com’X 210 can also make all data from connected devices available in real-time:

- In Modbus TCP/IP format over Ethernet or Wi-Fi.
- For requests by an energy management software.

Modbus packets can be sent from managing software to field devices through Modbus serial line or Modbus TCP/IP over Ethernet.

Commercial ref. no.	Product description
EBX210	Com’X 210 data logger 24 V DC or 230 V AC power supplied
EBXA-ANT-5M	Com’X External GPRS antenna

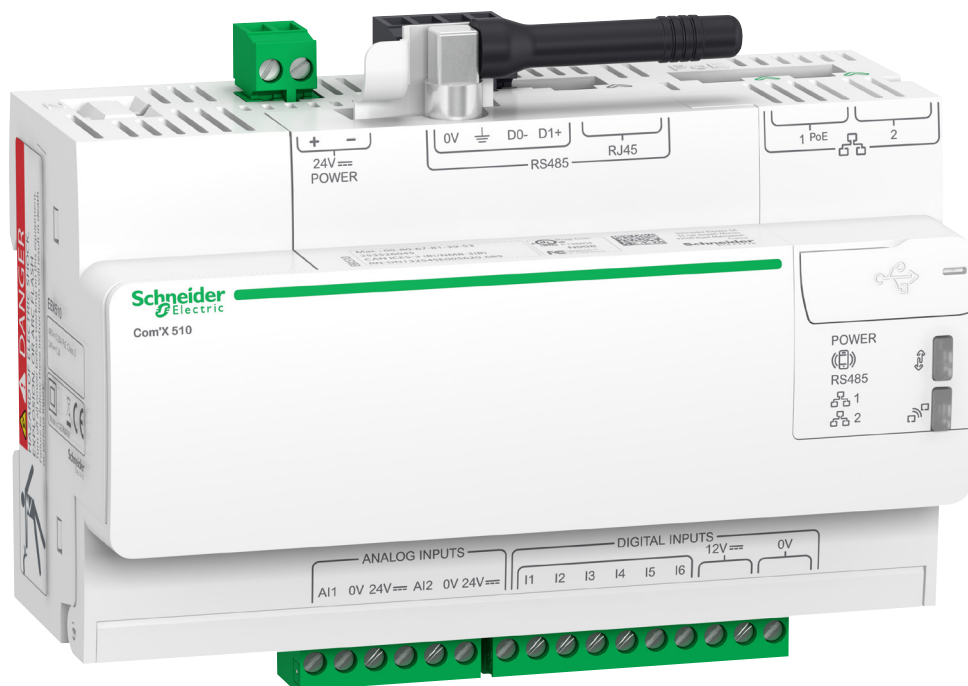
Com'X 510

A highly flexible plug-and-play Energy Server Com'X 510 collects and stores WAGES consumptions and environmental parameters such as temperatures, humidity and CO₂ levels in a building. The Com'X 510 has up to 2 year data storage and embedded webpages which means all your energy data can be viewed and managed on-site.

Applications

- All-in-one-box energy management solution especially suitable for buildings up to 10,000 sq. metres

PB114582



EBX510

The solution for

All markets that can benefit from a solution that includes data logger Com'X 510:

- Buildings
- Industry

Benefits

- Data collection from up to 64 field devices
- Data publishing leveraging existing infrastructures : Ethernet or Wi-Fi, GPRS-ready
- Quick fitting into electrical switchboards thanks to DIN rail clipping and profile.
- Quick setup and configuration thanks to intuitive HMI

Competitive advantages

- Fit any PDU or RPP design for both new and retrofit projects
- Class 1.0 system accuracy
- Ethernet communication

Energy management solution

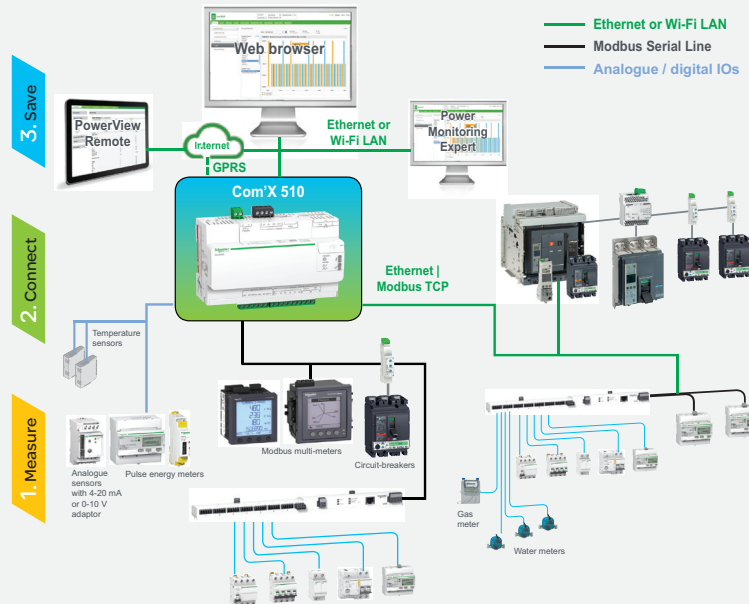
The data collected and stored by Com'X 510 can be processed and displayed through its own onboard webpage.

The Com'X 510 also provides a transparent interface between Ethernet-based networks and field devices. This gateway function supports the use of monitoring software, such as EcoStruxure™ Power Monitoring Expert for data collection, trending, event management, analysis and further processing.

Conformity of standards

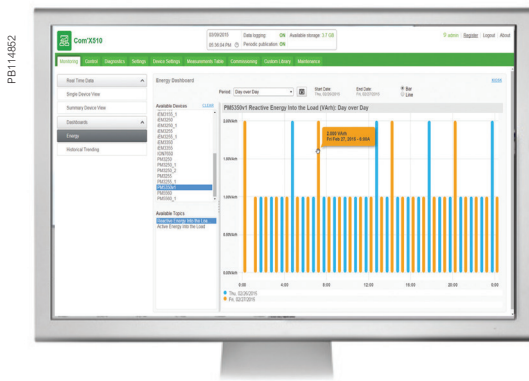
- EN 60950

Architecture



PB114856

Com'X 510 Energy server



Energy dashboard comparing accumulated over time energy values (partial screen)

Data collector

As soon as the data logger is connected to the LAN, it can be detected and assigned an IP address by DHCP. Your operating system's DPWS feature allows your computer to automatically recognise the device as Com'X. Embedded web pages are then immediately accessible by clicking each Com'X device icon or by typing the assigned IP address into your web browser.

Collects and stores energy data from up to 64 field devices, connected to either:

- Ethernet TCP/IP field network.
- Modbus Serial line network (up to 32 devices).
- Embedded digital and analog inputs.

“Field devices” consist of:

- PowerLogic meters for power and energy monitoring.
- Masterpact, Powerpact, or Compact circuit-breakers for protection and monitoring.
- Acti9 protection devices, meters, remote controlled switches, etc.
- Water, Air, Gas, Electricity, and Steam (WAGES) consumption meters, from specialised manufacturers, delivering pulses as per standard (see table at end of this document).
- Environmental sensors such as temperatures, humidity, and CO₂ levels in a building, providing analogue information.

Data logging and storage capabilities include:

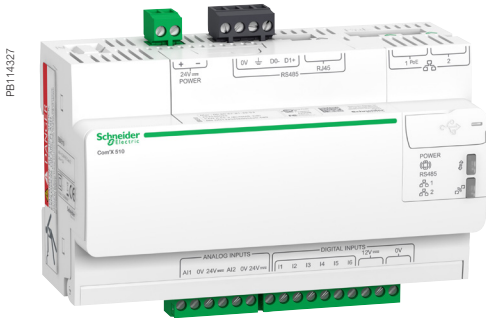
- Data logging period: configurable from every minute to once a week.
- Data storage duration: up to 2 years, depending on quantity of collected data.
- Able to set time and send reset instructions to field devices.

Embedded energy management software

The Com'X provides the end-user with immediate visibility into energy consumption throughout the site. As soon as the Com'X is connected to the Local Area Network (LAN), several web pages are accessible via any standard web browser, (without plug-in or additional components).

These web pages display real-time data as it is collected, in easy to understand tabular and summary formats. In addition, users can get simple analysis of historical data in bar graph or trending formats.

Com'X 510 Energy server



Energy Server Com'X 510 data logger

Additional functions

Data publisher

Batches of collected data can also be periodically transmitted to an Internet server, as:

- XML files, for processing by EcoStruxure™ Power Management software products
- CSV files for viewing in Excel or transformed for uploading to programs such as EcoStruxure™ Power Monitoring Expert or any compatible software

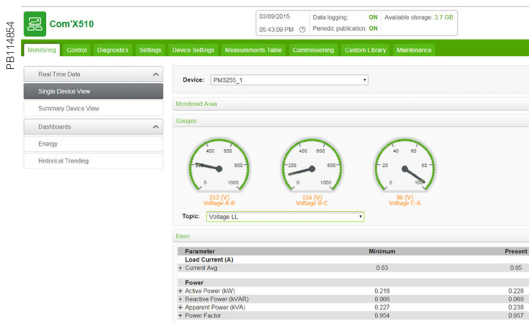
Data publishing function supports 4 transfer protocols over Ethernet or Wi-Fi:

- HTTP
- HTTPS
- FTP
- SMTP

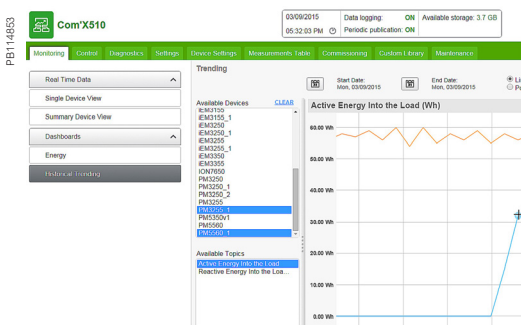
Gateway

- If selected by the user, the Com'X 510 can make data from connected devices available in real time
- In Modbus TCP/IP format over Ethernet or Wi-Fi
- For requests by energy management software

Modbus packets can be sent from managing software to field devices through Modbus serial line or Modbus TCP/IP over Ethernet.



Raw data and measurements from one field device (partial screen)

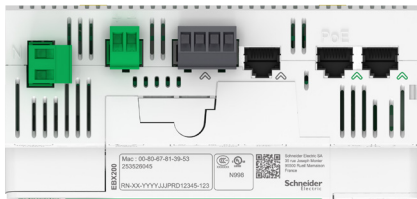


Historical trending comparing multiple devices or multiple topics (partial screen)

Commercial reference numbers	Description
EBX510	Com'X 510 energy server 24 V DC power supplied UL rated
EBXA-ANT-5M	Com'X External GPRS antenna
EBXA-USB-Zigbee	Com'X Zigbee USB interface

Com'X 210/510 Data Logger

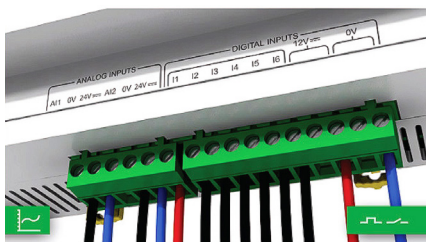
PB112047



Connection points

- 1 Terminal block
- 2 RJ45 cable
- 3 Ethernet port #1
- 4 Ethernet port #2

PB114859



Power supply to analogue and digital inputs

PB112042



GPRS modem

PB112045



GPRS antenna

Connectivity

- Modbus SL / RS-485 connections to field devices
 - By cable with RJ45 connector.
- 2 Ethernet ports
 - Used to either separate upstream connection from field devices network or to daisy chain Ethernet devices.
 - RJ45 10/100BASE connectors.
 - Static IP address.
- Ethernet port #1
 - Connection to Local Area Network (LAN).
 - PoE Class 3 (802.3af) can act as main/backup power supply for the Com'X.
 - DHCP client.
- Ethernet port #2
 - Connection to field devices.
 - DHCP client or server.
- Power supply to analogue and digital outputs
 - Outputs to supply sensors and inputs when Com'X is supplied through 24 V DC input on top:
 - 12 V DC 60 mA for digital inputs.
 - 24 V DC for analogue inputs.
 - Compliant with electrical switchboard environment (temperature, electromagnetic compatibility).
- 2 inputs for analogue sensors
 - PT100 or PT1000 temperature probes.
 - Various sensors (humidity, CO₂, etc.) with 0-10 V output.
 - Various sensors with 4-20 mA output
- 6 inputs for dry contact sensors or pulse counters
 - Max 25 pulses per second (min duration 20 ms)
 - IEC 62053-31 Class A
- GPRS modem
 - For connection to the data processing server through cellular or user's APN network.
 - Also connect to Schneider Electric's Digital Service Platform.
 - Especially suitable for sites with no internet access.
 - Simply plugs into dedicated port under the front cover.
- GPRS antenna
 - Improves GPRS signal strength in case of poor transmission conditions.
 - Recommended for Com'X located inside metallic electrical panels.

Com'X 210/510 setup and configuration

Setup and configuration

Connection to LAN

As soon as they are connected to the LAN, Com'X devices can be detected and assigned an IP address by DHCP. Your operating system's DPWS feature allows your computer to automatically recognise the device as Com'X. Embedded web pages are then immediately accessible by clicking each Com'X device icon or by typing the assigned IP address into your web browser.

Field device auto-discovery

The user-activated device discovery function automatically identifies all field devices connected to Modbus SL, Ethernet port.

- Schneider Electric devices display with the product image.
- Other devices appear as "unknown," allowing the user to manually assign a device type.
- User can assign their own device types.
- Users can complete additional device identification fields, such as circuit ID or building zone.

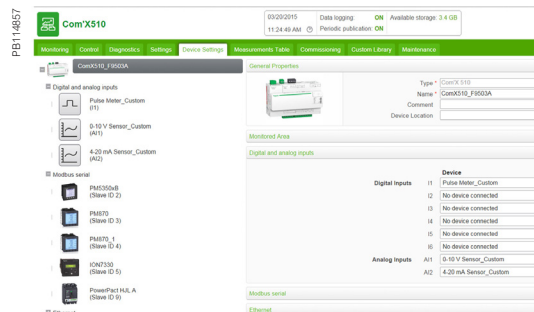
Data selection for logging and publication

Web page configuration tabs allow you to configure, in just a few clicks, which connected field devices collect and publish data.

- Advanced diagnostics and troubleshooting features
- Modbus serial and TCP/IP device statistics.
- Ethernet network statistics.
- Communications check wizard.
- Direct reading of register values from local and remote devices.

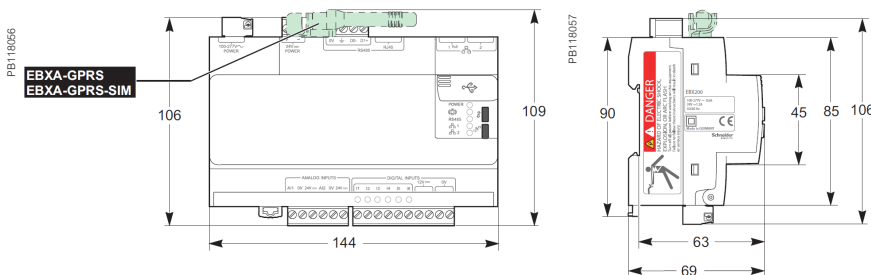
Additional features and benefits

- Cybersecurity - works well with your cyber security architecture.
- 2 Ethernet ports to separate upstream cloud connection, or to daisy chain with other Ethernet devices, from field device network.
- Data storage in case of communications failure.
- Local backup of configuration parameters - back up your system to a USB storage device and have it available for system restore or to duplicate the configuration on another box.



Device settings page (partial), as displayed after auto-discovery, enabling user to assign circuit identifications and select data for logging and publication.

Com'X 210/510 installation



DIN rail fitting (Front face IP40, terminals IP20).

Com'X 210/510 Data Logger

Technical specifications

Com'X 210/510 Environment

Operating temperature	-25° to 60°C Com'X 210 -25° to 70°C Com'X 510
Storage temperature	-40° to 85°C
GPRS dongle Operating temperature	-20° to 60°C
GPRS dongle Storage temperature	-40° to 85°C
Wi-Fi dongle Operating temperature	0° to 50°C
Wi-Fi dongle Storage temperature	-20° to 80°C
Humidity	5 to 95 % relative humidity (without condensation) at 55°C
Pollution	Class III

Safety standards / regulation

International (CB scheme)	IEC 60950
USA	UL 508
USA	UL 60950 (Com'X 510 only)
Canada	cUL 60950 (Com'X 510 only)
Canada	cULus 508
Europe	EN 60950

Quality Brands

	CE, UL
--	--------

Power Supply

		Com'X 210	Com'X 510
AC	100-230 V (+/- 15%)(50-60 Hz)	■	
DC	24 V (+/- 10%)	■	■
Power over Ethernet	15.4 W DC	■	■
Max power	26 W max	■	■

Mechanical

		Com'X 210	Com'X 510
IP	Front face IP40, terminals IP20	■	■
Dimensions (HxWxD)	91 x 144 x 65.8 mm	■	■
Weight	450 g	■	■

PowerLogic Commercial Reference Numbers

Commercial ref. no.	Description	Page
	Current Transformers	15
	CT Ip/5 A ratio	16
16550	44 x 66 x 37 Adapter for DIN rails Mounting plate	
16551	56 x 84 x 60 Adapter for DIN rails Mounting plate, insulated locking screw	
16552	56 x 84 x 60 Adapter for DIN rails Mounting plate Insulated locking screw sealable cover	
16553	77 x 107 x 64 Adapter for DIN rails Mounting plate Insulated locking screw	
METSECT5CC004	CC 40 A	
METSECT5CC005	CC 50 A	
METSECT5CC006	CC 60 A	
METSECT5CC008	CC 75 A	
METSECT5CC010	CC 100 A	
METSECT5CC013	CC 125 A	
METSECT5CC015	CC 150 A	
METSECT5CC020	CC 200 A	
METSECT5CC025	CC 250 A	
METSECT5MB025	MB 250 A	
METSECT5MB030	MB 300 A	
METSECT5MB040	MB 400 A	
METSECT5MA015	MA 150 A	
METSECT5MA020	MA 200 A	
METSECT5MA025	MA 250 A	
METSECT5MA030	MA 300 A	
METSECT5MA040	MA 400 A	
METSECT5MC025	MC 250 A	
METSECT5MC030	MC 300 A	
METSECT5MC040	MC 400 A	
METSECT5MC050	MC 500 A	
METSECT5MC060	MC 600 A	
METSECT5MC080	MC 800 A	
METSECT5MD050	MD 500 A	
METSECT5MD060	MD 600 A	
METSECT5MD080	MD 800 A	
METSECT5CYL1	Cylinder 8.5 mm dia.	
METSECT5CYL2	Cylinder 10.5 mm dia.	
METSECT5COVER	sealable cover 60.5 x 22 x 23.5 mm for CT TI	
METSECT5VV500	CT tropicalised 5000 5 bars 55x165	
METSECT5VV600	CT tropicalised 6000 5 bars 55x165	
METSECT5DA040	CT tropicalised 400 5 dual out. bars 32x65	
METSECT5DA050	CT tropicalised 500 5 dual out. bars 32x65	
METSECT5DA060	CT tropicalised 600 5 dual out. bars 32x65	
METSECT5DA080	CT tropicalised 800 5 dual out. bars 32x65	
METSECT5DA100	CT tropicalised 1000 5 dual out. bars 32x65	
METSECT5DA125	CT tropicalised 1250 5 dual out. bars 32x65	
METSECT5DA150	CT tropicalised 1500 5 dual out. bars 32x65	
METSECT5DB100	CT tropicalised 1000 5 dual out. bars 38x127	
METSECT5DB125	CT tropicalised 1250 5 dual out. bars 38x127	
METSECT5DB150	CT tropicalised 1500 5 dual out. bars 38x127	
METSECT5DB200	CT tropicalised 2000 5 dual out. bars 38x127	
METSECT5DB250	CT tropicalised 2500 5 dual out. bars 38x127	
METSECT5DB300	CT tropicalised 3000 5 dual out. bars 38x127	
METSECT5DC200	CT tropicalised 2000 5 dual out. bars 52x127	
METSECT5DC250	CT tropicalised 2500 5 dual out. bars 52x127	
METSECT5DC300	CT tropicalised 3000 5 dual out. bars 52x127	
METSECT5DC400	CT tropicalised 4000 5 dual out. bars 52x127	
METSECT5DD100	CT tropicalised 1000 5 dual out. bars 34x84	
METSECT5DD125	CT tropicalised 1250 5 dual out. bars 34x84	
METSECT5DD150	CT tropicalised 1500 5 dual out. bars 34x84	

Commercial ref. no.	Description	Page
METSECT5DE100	CT tropicalised 1000 5 dual out. bars 54x102	
METSECT5DE125	CT tropicalised 1250 5 dual out. bars 54x102	
METSECT5DE150	CT tropicalised 1500 5 dual out. bars 54x102	
METSECT5DE200	CT tropicalised 2000 5 dual out. bars 54x102	
METSECT5DH125	CT tropicalised 1250 5 dual out. bars 38x102	
METSECT5DH150	CT tropicalised 1500 5 dual out. bars 38x102	
METSECT5DH200	CT tropicalised 2000 5 dual out. bars 38x102	
	Rogowski CTs	31
METSECTR30500	Rogowski CT, 250 mm core length, 96 mm dia.	
METSECTR46500	Rogowski CT, 250 mm core length, 146 mm dia.	
METSECTR60500	Rogowski CT, 250 mm core length, 191 mm dia.	
METSECTR90500	Rogowski CT, 250 mm core length, 287 mm dia.	
	0.333 V 3-in-1 CTs with RJ45 for PM53xR	
METSECTV25006	LVCT SolidC 3in1 RJ45 25mmCtr 60A:1/3V	
METSECTV25010	LVCT SolidC 3in1 RJ45 25mmCtr 100A:1/3V	
METSECTV25013	LVCT SolidC 3in1 RJ45 25mmCtr 125A:1/3V	
METSECTV25016	LVCT SolidC 3in1 RJ45 25mmCtr 160A:1/3V	
METSECTV35006	LVCT SolidC 3in1 RJ45 35mmCtr 60A:1/3V	
METSECTV35010	LVCT SolidC 3in1 RJ45 35mmCtr 100A:1/3V	
METSECTV35012	LVCT SolidC 3in1 RJ45 35mmCtr 120A:1/3V	
METSECTV35013	LVCT SolidC 3in1 RJ45 35mmCtr 125A:1/3V	
METSECTV35015	LVCT SolidC 3in1 RJ45 35mmCtr 150A:1/3V	
METSECTV35016	LVCT SolidC 3in1 RJ45 35mmCtr 160A:1/3V	
METSECTV35020	LVCT SolidC 3in1 RJ45 35mmCtr 200A:1/3V	
METSECTV35025	LVCT SolidC 3in1 RJ45 35mmCtr 250A:1/3V	
METSECTV45025	LVCT SolidC 3in1 RJ45 45mmCtr 250A:1/3V	
METSECTV45030	LVCT SolidC 3in1 RJ45 45mmCtr 300A:1/3V	
METSECTV45040	LVCT SolidC 3in1 RJ45 45mmCtr 400A:1/3V	
METSECTV45050	LVCT SolidC 3in1 RJ45 45mmCtr 500A:1/3V	
METSECTV45060	LVCT SolidC 3in1 RJ45 45mmCtr 600A:1/3V	
METSECTV45063	LVCT SolidC 3in1 RJ45 45mmCtr 630A:1/3V	
METSECTV29006	LVCT SolidC 3in1 RJ45 29mmCtr 60A:1/3V	
METSECTV29010	LVCT SolidC 3in1 RJ45 29mmCtr 100A:1/3V	
METSECTV29012	LVCT SolidC 3in1 RJ45 29mmCtr 120A:1/3V	
METSECTV29013	LVCT SolidC 3in1 RJ45 29mmCtr 125A:1/3V	
METSECTV29015	LVCT SolidC 3in1 RJ45 29mmCtr 150A:1/3V	
METSECTV29016	LVCT SolidC 3in1 RJ45 29mmCtr 160A:1/3V	
METSECTV29020	LVCT SolidC 3in1 RJ45 29mmCtr 200A:1/3V	
METSECTV70080	LVCT SolidC 3in1 RJ45 70mmCtr 800A:1/3V	
METSECTV70100	LVCT SolidC 3in1 RJ45 70mmCtr 1000A:1/3V	
METSECTV70125	LVCT SolidC 3in1 RJ45 70mmCtr 1250A:1/3V	
	Panel Instruments	32
	DIN rail analog ammeters, voltmeters	33
16029	0-30 A no 8	
16030	X/5 8	
16031	0-5 A	
16032	0-50 A 50/5	
16033	0-75 A 75/5	
16034	0-100 A 100/5	
16035	0-150 A 150/5	
16036	0-200 A 200/5	
16037	0-250 A 250/5	
16038	0-300 A 300/5	
16039	0-400 A 400/5	

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16040	0-500 A 500/5	
16041	0-600 A 600/5	
16042	0-800 A 800/5	
16043	0-1000 A 1000/5	
16044	0-1500 A 1500/5	
16045	0-2000 A 2000/5	
16060	0-300 V 8	
16061	0-500 V 8	
	DIN rail digital ammeters, voltmeter, freq meter	34
15202	Direct reading iAMP 0-10 A No 4	
15209	Multi-rating iAMP 0-5000 A As per rating 4	
15201	iVLT 0-600 V 4	
15208	iFRE 20-100 Hz 4	
	72x72 analog ammeter, voltmeter	35
16003	AMP for motor feeder	
16004	AMP for standard feeder X/5	
16009	AMP for standard feeder 0-50 A 50/5	
16010	AMP for standard feeder 0-100 A 100/5	
16011	AMP for standard feeder 0-200 A 200/5	
16012	AMP for standard feeder 0-400 A 400/5	
16013	AMP for standard feeder 0-600 A 600/5	
16014	AMP for standard feeder 0-1000 A 1000/5	
16015	AMP for standard feeder 0-1250 A 1250/5	
16016	AMP for standard feeder 0-1500 A 1500/5	
16019	AMP for standard feeder 0-2000 A 2000/5	
16003	AMP for motor feeder X/5	
16006	AMP for motor feeder 0-30-90 A 30/5	
16007	AMP for motor feeder 0-75-225 A 75/5	
16008	AMP for motor feeder 0-200-600 A 200/5	
16005	VLT 0-500 V	
	96x96 analog ammeter, voltmeter	36
16074	AMP for standard feeder X/5	
16079	AMP for standard feeder 0-50 A 50/5	
16080	AMP for standard feeder 0-100 A 100/5	
16081	AMP for standard feeder 0-200 A 200/5	
16082	AMP for standard feeder 0-400 A 400/5	
16083	AMP for standard feeder 0-600 A 600/5	
16084	AMP for standard feeder 0-1000 A 1000/5	
16085	AMP for standard feeder 0-1250 A 1250/5	
16086	AMP for standard feeder 0-1500 A 1500/5	
16087	AMP for standard feeder 0-2000 A 2000/5	
16088	AMP for standard feeder 0-2500 A 2500/5	
16089	AMP for standard feeder 0-3000 A 3000/5	
16090	AMP for standard feeder 0-4000 A 4000/5	
16091	AMP for standard feeder 0-5000 A 5000/5	
16092	AMP for standard feeder 0-6000 A 6000/5	
16073	AMP for motor feeder X/5	
16076	AMP for motor feeder 0-30-90 A 30/5	
16077	AMP for motor feeder 0-75-225 A 75/5	
16078	AMP for motor feeder 0-200-600 A 200/5	
16075	VLT 0-500 V	
	48x48 CMA, CMV selector switches	37
16017	CMA 20 4	
16018	CMV 500 7	
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15126	iCMA 10 415 4	
15125	iCMV 10 415 4	
	iCH hour counter	39
15440	iCH "DIN" 230 V AC ± 10 %/50 Hz 4mm	
15607	CH "48 x 48" 24 V AC ± 10 %/50 Hz	
15608	CH "48 x 48" 230 V AC ± 10 %/50 Hz	
15609	CH "48 x 48" 12 to 36 V DC	

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	iCI impulse counter	
15443	iCI 4mm impulse counter DIN	
	Basic Energy Metering	43
	iEM2000	44
A9MEM2000T	iEM2000T basic energy meter, no display	
A9MEM2000	iEM2000 basic energy meter	
A9MEM2010	iEM2010 energy meter, kWh pulse output	
A9MEM2100	iEM2100 basic energy meter	
A9MEM2050	iEM2050 modular single phase power meter 230 V - 45 A with Modbus	
A9MEM2055	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID	
A9MEM2105	iEM2105 energy meter, kWh pulse output with partial meter	
A9MEM2110	iEM2110 energy meter, kWh and kvarh pulse outputs with two tariffs, four quadrant energy measurement, MID certified	
A9MEM2135	iEM2135 energy meter, M-Bus communication, four quadrant energy measurement, two tariffs, MID certified	
A9MEM2150	iEM2150 energy meter, Modbus communication, four quadrant energy measurement	
A9MEM2155	iEM2155 energy meter, Modbus communication, four quadrant energy measurement, two tariffs, MID certified	
	iEM3000	51
A9MEM3100	iEM3100 basic energy meter	
A9MEM3110	iEM3110 energy meter with pulse output	
A9MEM3115	iEM3115 multi-tariff energy meter	
A9MEM3135	iEM3135 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port	
A9MEM3150	iEM3150 energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3155	iEM3155 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3165	iEM3165 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3175	iEM3175 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port	
A9MEM3200	iEM3200 basic energy meter	
A9MEM3210	iEM3210 energy meter with pulse output	
A9MEM3215	iEM3215 multi-tariff energy meter	
A9MEM3235	iEM3235 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port	
A9MEM3250	iEM3250 energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3255	iEM3255 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port	
A9MEM3265	iEM3265 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3275	iEM3275 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port	
A9MEM3300	iEM3300 basic energy meter	
A9MEM3310	iEM3310 energy meter with pulse output	
A9MEM3335	iEM3335 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port	
A9MEM3350	iEM3350 energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3355	iEM3355 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port	

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A9MEM3365	iEM3365 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3375	iEM3375 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port	
A9MEM3455	iEM3455 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3465	iEM3465 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3555	iEM3555 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3565	iEM3565 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
	LVCTs	49
LVCT00050S	CT, split-core, Size 0, 50 A to 0.333 V	
LVCT00101S	CT, split-core, Size 1, 100 A to 0.333 V	
LVCT00201S	CT, split-core, Size 1, 200 A to 0.333 V	
LVCT00102S	CT, split-core, Size 2, 100 A to 0.333 V	
LVCT00202S	CT, split-core, Size 2, 200 A to 0.333 V	
LVCT00302S	CT, split-core, Size 2, 300 A to 0.333 V	
LVCT00403S	CT, split-core, Size 3, 400 A to 0.333 V	
LVCT00603S	CT, split-core, Size 3, 600 A to 0.333 V	
LVCT00803S	CT, split-core, Size 3, 800 A to 0.333 V	
LVCT00804S	CT, split-core, Size 4, 800 A to 0.333 V	
LVCT01004S	CT, split-core, Size 4, 1000 A to 0.333 V	
LVCT01204S	CT, split-core, Size 4, 1200 A to 0.333 V	
LVCT01604S	CT, split-core, Size 4, 1600 A to 0.333 V	
LVCT02004S	CT, split-core, Size 4, 2000 A to 0.333 V	
LVCT02404S	CT, split-core, Size 4, 2400 A to 0.333 V	
	Basic Multi-Function Metering	58
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METSEPM3200	PM3200 basic power meter	
METSEPM3210	PM3210 power meter with pulse output	
METSEPM3250	PM3250 power meter with RS-485 port	
METSEPM3255	PM3255 power meter plus 2 digital inputs, 2 digital outputs with RS-485 port	
	PM5350/PM5350IB/PM5350PB/PM5350P	72
METSEPM5320	PM5320 Power & Energy meter with THD, alarming	
METSEPM5340	PM5320 Power & Energy meter with THD, alarming	
METSEPM5350	PM5350 Power & Energy meter with THD, alarming	
METSEPM5350PB/IB	PM5350PB/IB	
METSEPM5350P	PM5350 Power & Energy meter with THD, alarming, multi-tariff and individual harmonics	
	PM5000	95
METSEPM5100	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 15th harmonic, no communication, 1DO	
METSEPM5110	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 15th harmonic, RS-485 Modbus, 1DO	
METSEPM5111	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 15th harmonic, RS-485 Modbus, 1DO, MID cert	
METSEPM5310	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO	
METSEPM5310R	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, RS-485 Modbus, 2DI/2DO	
METSEPM5320	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO	

Commercial ref. no.	Description	Page
METSEPM5320R	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, Ethernet, 2DI/2DO	
METSEPM5330	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay	
METSEPM5331	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay	
METSEPM5340	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay	
METSEPM5341	Power Meter range 72 mm depth, control power to 415 V AC, CI 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay, MID cert	
METSEPM5560	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 4DI/2DO	
METSEPM5561	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, MID cert	
METSEPM5562	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, HW lockable,	
METSEPM5562MC	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, factory sealed,	
METSEPM5563*	Power Meter range 77 mm depth, control power to 480 V AC, CI 0.2S, 63rd harmonic, 1.1 MB, DIN mount, no display, 4DI/2DO	
METSEPM5563RD*	PM5500 power meter, ETH-serial + 4DI-2DO out, remote display	
METSEPM55RD*	Remote display for PM5563 power meter	
*METSEPM5563RD includes both METSEPM5563 and METSEPM55RD		
METSEPM51HK	Hardware kit for PM51XX (voltage, current, comms & IO connectors + moulding clips)	
METSEPM53HK	Hardware kit for PM53XX (voltage, current, comms & IO connectors + moulding clips)	
METSEPM51_3RSK	Revenue sealing kit for PM51XX & PM53XX (sealing covers for voltage & current connectors)	
METSEPM55HK	Hardware kit for PM55XX (voltage, current, comms & IO connectors & moulding clips)	
METSEPM55RSK	Revenue sealing kit for PM55XX (sealing covers for voltage & current connectors)	
	Cables	
METSEPM5CAB3	Remote Display cable	
DCEPCURJX5GYM	Category 5e, Patch Cord, UTP, 0.5 M, Grey	
DCEPCURJ01GYM	Category 5e, Patch Cord, UTP, 1 M, Grey	
DCEPCURJ02GYM	Category 5e, Patch Cord, UTP, 2 M, Grey	
DCEPCURJ03GYM	Category 5e, Patch Cord, UTP, 3 M, Grey	
DCEPCURJ05GYM	Category 5e, Patch Cord, UTP, 5 M, Grey	
DCEPCURJ10GYM	Category 5e, Patch Cord, UTP, 10 M, Grey	
	Communications & Gateways	221
	Link150 Ethernet gateway	225
EGX150	Link150 Ethernet gateway	
	Com*X 200/210/510	229
EBX200	Com*X 200 data logger 24 V DC or 230 V AC power supplied	
EBX210	Com*X 210 data logger 24 V DC power supplied UL rated	
EBX510	Com*X 510 energy server 24 V DC power supplied UL rated	
EBXA-GPRS-SIM	Com*X GPRS interface SIM card	
EBXA-ANT-5M	Com*X External GPRS antenna	
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M7550A0N9B9E0A0A	SE-7550-I/5M/512S-RTU-P240-ETH PML 7550	
M7550A0N9B9E0E0A	SE-7550-I/5M/512S-RTU-P240-ETH-20MAI PML	

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