

EMDX³ electrical energy meters

┌ rail mounting



Technical characteristics p. 18

Conform to standards :

- IEC 61557-12
- IEC 62053-21/23
- IEC 62052-11 and IEC 62052-31

Measure the electricity consumed by a single phase or three phase circuit downstream of the electricity distribution metering. Display electricity consumption in kWh, as well as other values such as current, active energy, reactive energy and power (depending on the catalogue number)

MID compliance ensures accuracy of the metering with a view to recharging for the electricity used

Pack	Cat. Nos.		Single phase meters			
	Non-MID	MID compliant	Direct connection			
			Maximum current (A)	Output type	Dual tariff	Number of modules
1	0046 70		32	Pulse	No	1
1	4120 68		45	RS 485	No	1
1		4120 69	45	Pulse	No	1
1	4120 80	4120 82	63	Pulse	No	2
1	4120 81	4120 83	63	RS 485	Yes	2
Three phase meters						
	Non-MID	MID compliant	Direct connection			
			Maximum current (A)	Output type	Dual tariff	Number of modules
1	4120 90 ¹	4120 92 ¹	63	Pulse	No	4
1	4120 91	4120 93	63	RS 485	Yes	4
1	4120 74	4120 75	125	Pulse and RS 485	Yes	6
Connection with CT						
1	4120 40 ¹	4120 42 ¹	5	Pulse	No	4
1	4120 41	4120 43	5	RS 485	Yes	4

Pack	Cat. Nos.	Pulse concentrator
1	4120 65	For collecting and transmitting measurements taken by 12 universal pulse electricity meters. Also collects pulses from other meters (gas meters, water meters, etc.) RS485 output. 4 modules

Pack	Cat. Nos.	Measurement concentrator
1	4120 00	Full or partial electricity metering for 5 uses: heating, cooling, domestic hot water, and power sockets + "other" 5 inputs for current transformers ² (up to 2 current transformers per input) 2 pulse inputs for water and gas metering LCD screen and 6 button keypad RJ45 IP output Power supply 110/230 VAC - 50/60 Hz 6 modules

Pack	Cat. Nos.	Split core current transformer
1	4120 02	90 A max. for the measurement concentrator Cat. No. 4120 00. Accepts : 10 x 1.5 mm ² cables, or 7 x 2.5 mm ² cables, or 2 x 6 mm ² cables, or 1 x 10 or 16 mm ² cable

Pack	Cat. Nos.	Solid core current transformer
1	4120 04	60 A, for the measurement concentrator Cat. No. 4120 00

EMDX³ multi-function measuring units

┌ rail mounting



Technical characteristics p. 19

Conform to standards:

- IEC 61557-12
- IEC 62053-22
- IEC 62053-23

Pack	Cat. Nos.	EMDX ³ modular
1	4120 45	Multi-function measuring unit For mounting on ┌ rail. Width: 4 modules. <ul style="list-style-type: none"> • LCD display • Precision class: 1 • Connection with current transformers (CT)² • Measurement of currents, voltages, frequency, active, reactive and apparent power, power factor, active and reactive energy • THD voltages and currents • RS 485 and pulse output
1	4 120 51	Multi-function measuring unit with active digital inputs and programmable alarms For mounting on ┌ rail. Width: 4 modules. <ul style="list-style-type: none"> • LCD display • Precision class: 0.5 • Connection with current transformers (CT)² • Measurement of currents, voltages, frequency, active, reactive and apparent power, power factor, active and reactive energy • 4 tariff metering: • THD voltages, currents and harmonic analysis up to order 25 (available on Modbus COM port) • Programmable alarms on all functions • RS 485 and pulse output

1 : One pulse type input for other types of meters (gas, water, etc.)

2 : See current transformers on this page and also p. 16