

EMDX³ electrical energy meters

┌ rail mounting



Technical characteristics p. 120

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). Conform to standards IEC 61557-12, IEC 62053-21/23, IEC 62052-11 and IEC 62052-31. MID compliance ensures accuracy of the metering with a view to recharging for the electricity used.

Pack	Cat.Nos		Single-phase meters	Direct connection	Maximum current (A)	Output type	Dual tariff	Number of modules
	Non-MID	MID compliant						
1	0 046 70		Single-phase meters Direct connection Maximum current (A) Output type Dual tariff Number of modules 32 Pulse No 1 45 RS 485 No 1 45 Pulse No 1 63 Pulse No 2 63 RS 485 Yes 2					
1	4 120 68							
1		4 120 69						
1	4 120 80	4 120 82						
1	4 120 81	4 120 83						
1			Three-phase meters Direct connection Maximum current (A) Output type Dual tariff Number of modules 63 Pulse No 4 63 RS 485 Yes 4 125 Pulse and RS 485 Yes 6 Connection with CT 5 Pulse No 4 5 RS 485 Yes 4					
1	4 120 90 ¹	4 120 92 ¹						
1	4 120 91	4 120 93						
1	4 120 74	4 120 75						
1	4 120 40 ¹	4 120 42 ¹						
1	4 120 41	4 120 43						
1			Pulse concentrator 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.					
		4 120 65						

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



EMDX³ multi-function measuring units

┌ rail mounting



Technical characteristics p. 121-122

Conform to standards:
 - IEC 61557-12
 - IEC 62053-22
 - IEC 62053-23 class 1

Pack	Cat.Nos	EMDX ³ modular measuring unit
1	4 120 45	Multi-function measuring unit For mounting on ┌ rail. Width: 4 modules. • LCD display • Precision class: 1 • Connection with current transformers (CT) • 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. • LCD display • Precision class: 0.5 • Connection with current transformers (CT) • 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	4 120 48	EMDX³ Easy Connect measuring unit For mounting on ┌ rail. Width: 4 modules. To be equipped with open, flexible Rogowski coils from 630 to 6300 A, Cat.Nos 4 121 08/09/10/11 (p. 119). For 3-phase networks (3 or 4 cables). • LCD display allowing to read the current and voltage phase shifts and visualize the average power load curve and the harmonics diagram (up to rank 15), in addition to the display of main values of an electrical network. • The fast connection system of the Rogowski coils allow time saving during wiring operations and reduce the risk of errors. • Measurement of : - Phase and line (phase to phase) voltages - Minimum and maximum voltages - THD voltages (up to rank 15) - Phase current - Neutral current - Average phase current - Average peak phase current • MODBUS output

EMDX³ with Netatmo connected ecometer p. 112



Rogowski coils for Easy Connect multi-function measuring units p. 119