

# EMDX<sup>3</sup> electrical energy meters

— rail mounting

## Technical characteristics

Conform to IEC 61557-12

Active energy accuracy: Class 1 (EN 62053-21)

Class B (EN 50470-1,3) - for MID version

Reactive energy accuracy: Class 2 (EN 62053-23)

### Single-phase meters:

Reference voltage Un: 230 V-240 V

Reference frequency: 50-60 Hz

### Cat.Nos 0 046 70, 4 120 68/69

LCD display: 7 digits

Resolution: 0.1 kWh

Maximum indication: 99999.9 kWh

### Cat.Nos 4 120 80/81/82/83

LCD graphic display: 9 digits

Resolution: 0.01 kWh

Maximum indication: 9999999.99 kWh

## Three-phase meters:

Reference voltage Un: single phase 230 V-240 V

three-phase 230 (400) - 240 (415) V

Reference frequency: 50-60 Hz

### Cat.Nos 4 120 40/41/42/43/91/92/93

LCD graphic display: 9 digits

Resolution: 0.01 kWh

Maximum indication: 9999999.99 kWh

### Cat.Nos 4 120 74/75

LCD display: 8 digits

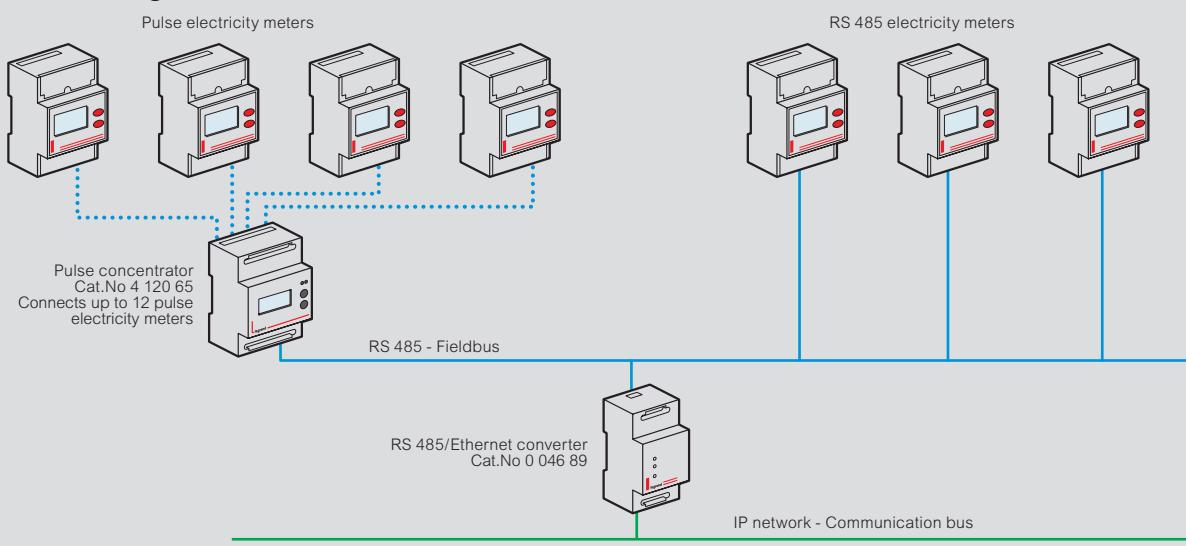
Resolution: 0.01 kWh

Maximum indication: 9999999.99 kWh

Cat.Nos		0 046 70	4 120 68	4 120 69	4 120 80	4 120 81	4 120 82	4 120 83	4 120 90	4 120 91	4 120 92	4 120 93	4 120 74	4 120 75	4 120 40	4 120 41	4 120 42	4 120 43
Type		Single phase								Three-phase								
Connection		Direct connection												Connection via CT				
Number of modules		1	1	1	2	2	2	2	4	4	4	4	6	6	4	4	4	4
Max. current (A)		32	45	45	63	63	63	63	63	63	63	63	125	125	5 (CT)	5 (CT)	5 (CT)	5 (CT)
Energy	Total active energy	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Total reactive energy		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Partial active energy (reset)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Partial reactive energy (reset)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Metering and measurement	Ea + and Ea- by tariff			●	●	●	●	●	●	●	●	●			●	●	●	●
	Active power		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Reactive power		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Apparent power		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Power	Average active power		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Max. average active power value			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Current		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Voltage		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Electrical values	Frequency			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Power factor		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Dual tariff					●				●									
Pulse input					●	○		●	○	●	○	●	○		●	○	●	○
Connection diagnostic															●	●	●	●
Time of uses	Total				●	●	●	●	●	●	●	●	●	●	●	●	●	●
	By tariff					●		●		●		●		●		●		●
Communication	Pulse output	●		●	●	●		●		●		●		●		●		●
	Modbus RS 485		●			●		●		●		●		●		●		●
MID certification				●				●		●		●		●		●		●

● Built-in function  
○ Dual tariff or pulse input

## Interfacing with IP communication network



For direct connection meters, if connected via transformers, the resolution and maximum indication depend on the transformation ratios of these transformers