EMDX³ electrical energy meters
4 rail mounting

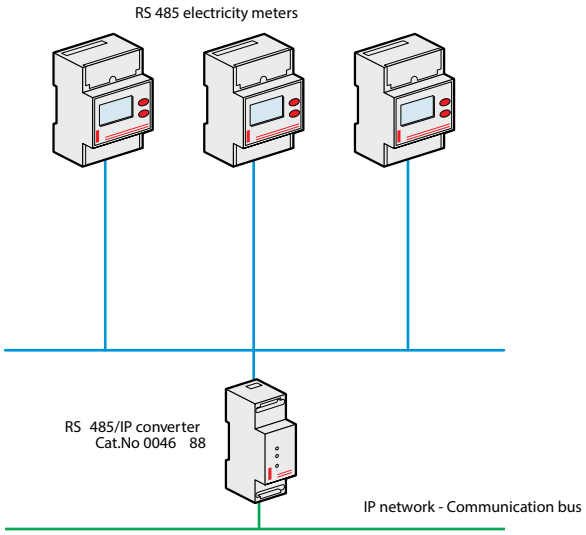
Technical characteristics

Single-phase meters Cat.Nos 0046 70/77
LCD display: 7 digits
Resolution: 0.1 kWh
Maximum indication: 99999.9 kWh
Metrological LED: 1 Wh/pulse (Cat.No 0046 70 : 0.5 Wh/pulse)
Accuracy (EN 62053-21): class 1
Reference voltage Un: 230 V-240 V
Reference frequency: 50-60 Hz
Pulse output: 1 pulse/10 Wh
(Cat.No 0046 70: 2 pulse/Wh)

Three-phase meters Cat.Nos 0046 80/84
LCD display: 8 digits
Resolution: 0.01 kWh (1)
Maximum indication: 99999.99 kWh (1)
Metrological LED: 0.1 Wh/pulse or 1 Wh/pulse
Active energy accuracy (EN 62053-21): class 1
Reactive energy accuracy (EN 62053-23): class 2
Reference voltage Un:
- Single-phase: 230-240 V
- Three-phase: 230(400)-240(415) V
Operating limit range (EN 62053-21, EN 62053-23):
- Single-phase: 110 to 254 V
- Three-phase: 110(190) to 254(440) V
Pulse output: 1 pulse/10 Wh

Cat.Nos		0046 70	0046 77	0046 80	0046 84
Number of modules		1	2	4	4
Connection	Direct	●	●	●	
	Via a current transformer				●
	Single-phase	●	●		●
	Three-phase			●	●
Max. current		32 A	63 A	63 A	5 A (CT)
Metering and measurement	Total active energy	●	●	●	●
	Total reactive energy			●	●
	Partial active energy (reset)		●	●	●
	Partial reactive energy (reset)			●	●
	Active power		●	●	●
	Reactive power			●	●
	Apparent power			●	●
	Current		●	●	●
	Voltage		●	●	●
	Frequency		●	●	●
	Power factor		●	●	●
	Time-of-use		●		
	Average active power			●	●
	Max. average active power value			●	●
	Dual tariff				
Communication	Pulse output	●			●
	RS 485 interface		●	●	●
MID compliant					
Operating conditions	Reference temperature	23 °C ± 2 °C			
	Operating temperature	-20 to +55 °C	-10 to +45 °C	-5 to +55 °C	
	Storage temperature	-40 to +70 °C	-25 to +70 °C	-25 to +70 °C	
	Consumption	≤ 8 VA		≤ 4 VA per phase	≤ 1 VA per phase
	Heat dissipation	≤ 6.5 W		≤ 6 W	≤ 4 W

Interfacing with IP communication network



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