

EMDX³ 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 U_n : 230 V-240 V
 Reference frequency : 50-60 Hz

Cat. Nos. 0046 70, 4120 68/69

LCD display : 7 digits
 Resolution : 0.1 kWh
 Maximum indication : 99999.9 kWh

Cat. Nos. 4120 80/81/82/83

LCD graphic display : 9 digits
 Resolution : 0.01 kWh
 Maximum indication : 999999.9 kWh

Three phase meters :

Reference voltage U_n : single phase 230 V-240 V
 three phase 230 (400) - 240 (415) V

Reference frequency : 50-60 Hz

Cat. Nos. 4120 40/41/42/43/90/91/92/93

LCD graphic display : 9 digits
 Resolution : 0.01 kWh
 Maximum indication : 999999.9 kWh

Cat. Nos. 4120 74/75

LCD display : 8 digits
 Resolution : 0.01 kWh
 Maximum indication : 99999.9 kWh

Cat. Nos.		0046 70	4120 68	4120 69	4120 80	4120 81	4120 82	4120 83	4120 90	4120 91	4120 92	4120 93	4120 74	4120 75	4120 40	4120 41	4120 42	4120 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)			
Metering and measurement	Energy	Total active energy	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		Total reactive energy		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		Partial active energy (reset)				●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		Partial reactive energy (reset)				●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Energy bidirectional measure	Ea + and Ea - by tariff				●	●	●	●	●	●	●	●			●	●	●	●		
		Power	Active power		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Reactive power			●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Apparent power			●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Average active power			●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Max. average active power value					●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Electrical values	Current		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		Voltage		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		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

