X-Meter

Electrical mains analyzer and Datalogger in a single instrument
Available in two versions: 5A(**) or with voltage inputs (***)

- Network analyser with integrated datalogger
- Memory and communication extensions to store up to 250 days' worth of data
- RS485 integrated serial port
- Bidirectional energy measurement (imported / transferred)
- 50 measurements
- Measurements in true value (true RMS)
- Measurements on 4 quadrants
- Graphic display
- Full and clear indications of measurements
- 6-key keyboard with sound
- Configurable outputs for alarms and quantities
- Graphic display of voltage, current, power and cosf
- 12 power totalizators on 4 quadrants that can be reset
- € Indication of absorbed and delivered power
- Clock and calendar
- 46277 DIN rail case (9 modules)
- Removable clamps to make installation easier
- Available with 5A or with voltage inputs

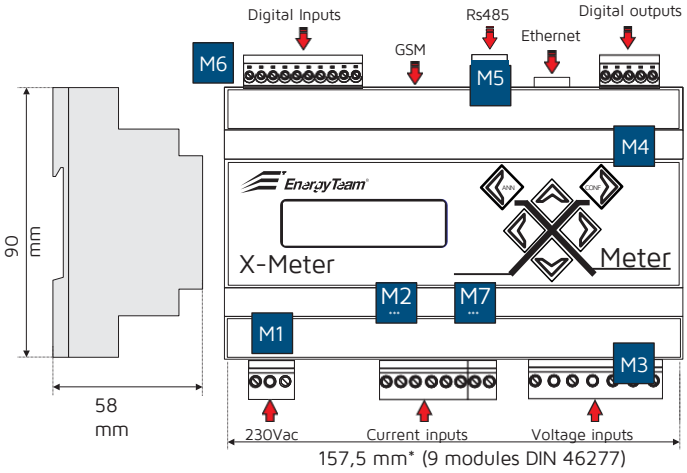
Options

XM1 - Memory Extension and Communication

XM3 - Mod.8 Digital Inputs
XM4 - Mod. GSM/GPRS Modem
XM5 - Mod. Ethernet Network
XM6 - Mod. Harmonic Recordings

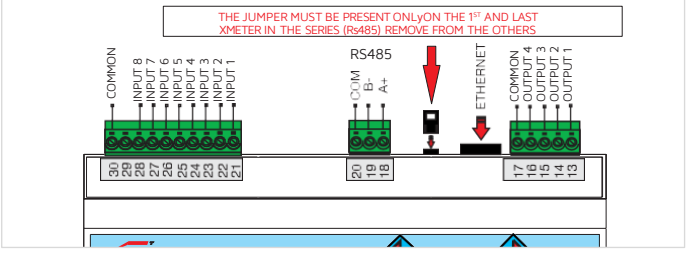
Measurements on 50/60Hz g4rid	
Voltage	Vac
Active Power	W
Reactive Power	VAr
Apparent Power	VA
Distorting Power	VA
Three-phase equivalent current	A
Mains current	A
Cosf	
Power factor	
Active power delivered	Wh
Active power absorbed	Wh
Inductive reactive power	VArh
Capacitive reactive power	VArh
Frequency	Hz
Precision	+/- 0.25% of full scale Meas. Val. +/- 0.50% of full scale Deriv. Meas. Val.
Power supply	
Power voltage	100-250 Vac / 100-350 Vdc
Frequency	50-60 Hz
Consumption	5 Va
General	
Voltage inputs N.3	100 o 400 Vac
Current inputs	(**) 3 current inputs with 5ARMS voltage output (***) 3 inputs in specific current for sensors with 1VtRMS voltage
Pulsed outputs N.2 (Act/React)	
Optomos outputs (N.1 Min N.1 Max)	100 mA / 24 Vdc
Protection rating	IP 20
Weight	400 gr
Dimensions LxHxW 9 DIN modules	157.5 x 90 x58 mm
Graphic	Display
Operating temperature	-10°C + 55°C
Relative humidity	95% non-condensing

Dimensions and Terminal boards



M1 Power supply - Maximum cable section: 2 mm2 (16AwG)
M2** Current input- Maximum cable section: 2.5 mm2 (14AwG)
M7*** Voltage signal inputs (current measurements) Maximum cable section: 0.75 mm2 (14AwG)
M3 Voltage inputs - Maximum cable section: 2.5 mm2 (14AwG)
M4 Digital outputs - Maximum cable section: 0.75 mm2 (18AwG)
M5 FS485 - Maximum cable section: 0.75 mm2 (18AwG) Belden 9841
M6 Digital inputs - Maximum cable section: 0.75 mm2 (18AwG)

I/O Serial Connections

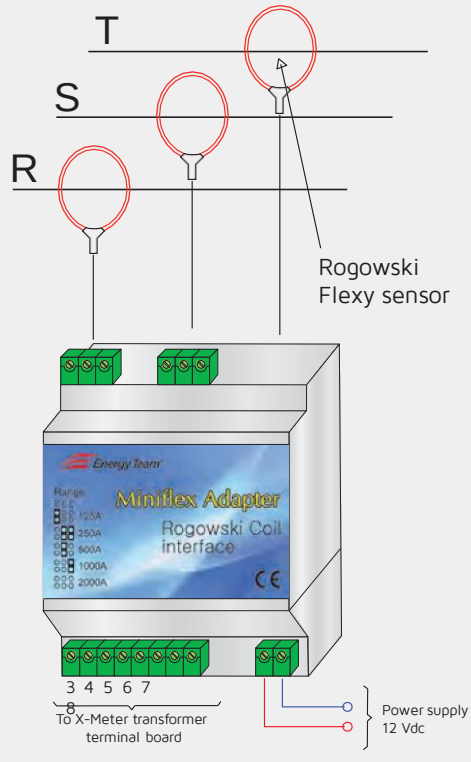


EnergyTeam

Rogowski Flexy sensor

The non-intrusive flexible current sensor provides the ability to measure alternating current in any installation with a full rejection of DC component, very low power consumption, no saturation problems, very low temperature influence and very good linearity.

- Flexibility
- Magnetic sensor
- Hole for sealing the sensor and prevent tampering



Safety precautions

The current flexible sensor has been designed and tested to fulfill IEC 61010-1:2001/EN 61010-1 61010-2-32 safety standard.

Electrical Features	
Typical Voltage Output EoutRMS	100uV/A @50Hz
Frequency Range	50Hz - 60Hz
Accuracy	+/- 1% of range
Linearity (10% to 100%)	+/- 0.2%
Max. Temperature Coefficient	+/- 0.05%
Position sensibility (junction Cable)	+/- 2%
Electrical Safety	
Isolation	Double Isolation
Protection class	Protection class
Overvoltage Category	1000V CAT III / 600V CAT IV
Pollution Degree	2
Dielectric Rigidity	IEC/EN 61010-2-32:2002, 5.4kV 50Hz

Openable current transformer with voltage output

CODE Item Energy Team	Internal Dimensions Pass-through (mm) [Ø]	External Dimensions (mm) [WxHxD]	Full scale (A)	Class
XXXXTA	24	46 x 66 x 34,2	50	1
XXXXTA	24	46 x 66 x 34,2	100	1
XXXXTA	24	46 x 66 x 34,2	150	1
XXXXTA	24	46 x 66 x 34,2	200	1
XXXXTA	24	46 x 66 x 34,2	250	1