

Metering is our Business

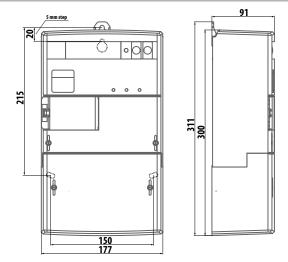
# **IC**G

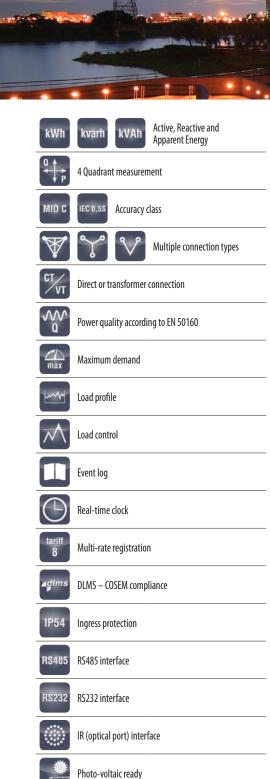
# MT880-I

High precision integrated meter



### Meter dimensions





Type overview		MT880-D2I directly connected	MT880-T1I CT connected	MT880-T1I CT & VT connected
	High voltage		•	•
Network	Medium voltage	•	•	•
	Low voltage	•	•	
	3P4W	•	•	•
Connection type	3P3W	•	•	•
type	3P3W (two systems)		•	•
	RS-232	•	•	•
Communication type	RS-485	•	•	•
· ypc	RS485 (RJ45) — RS485	•	•	•
Input – output	3 OPTOMOS outputs + 5A bistable relay	•	•	
options	5 OPTOMOS outputs + 5A bistable relay			•

Technical specifications			MT880-D2I directly connected	MT880-T1I CT connected	MT880-T1I CT & VT connected
Nominal voltage Un		3 x 110/190 V 3 x 240/415 V	3 x 110/190 V 3 x 240/415 V	3 x 57.7/100 V 3 x 110/190 V	
Voltage range		0.8 – 1.15 Un			
Reference frequency		50 Hz ±2 % or 60 Hz ±2 %			
Current	Nominal current	ln	_	1 A, 1.5 A, 2 A, 5 A, 5//1 A	
	Base current	lb	5 A, 10 A	_	_
	Maximal current	Imax	120 A	Version 1: 6 A, 10 A Version 2: 20 A (In = 5A)	6 A, 10 A
Accuracy class	Active energy		B (EN 50470 - 3) Class 1 (IEC 62053-21) Calibrated to 0,5%	B or C (EN 50470 - 3) Class 1 (IEC 62053-21) Class 0.5S (IEC 62053-22)	
	Reactive energy		Class 1 (	Class 1 (IEC 62053-24), Class 2 (IEC 62053-23)	
	Apparent energy		Calibrated up to 1%		
Real-time clock	Accuracy		Crystal: $< 5 \text{ ppm} = \le \pm 3 \text{ min./year} (T = +25 ^{\circ}C)$		T = +25 °C)
	Back-up power su	pply	Super-Cap: > 15 days, charging time 250 hours Super — Cap + Li battery : 10 years		
External power supply	Value		-	– 57.7 – 240 V AC/DC	
	Tolerance		-	0.8 – 1.15 U <sub>n</sub>	
	Frequency (only fo	or AC)	-	50 Hz or 60 Hz	
Temperature ranges (IEC 62052-11)	Operation		-40 °C +70 °C		
	Storage		-40 °C +85 °C		
Ingress protection IEC 60529		IP 54			
Liquid Crystal Display		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

## **Basic functionality**

#### **Measurement features**

- Active (import/export) and Reactive energy (import/export), 4Q Reactive,
   Apparent energy & demand
- Phase and three phase energy/demand measurements
- Maximum demand with programmable integration period

#### **Tariff functions**

Complex time-of-use (TOU)

#### **Load profiles**

- Two independent Load profiles
- Programmable and independent Load profiles period
- Eight separate Event logs

#### Communication

- IEC 62056-46 (DLMS) and IEC 62056-21 on optical port
- IEC 62056-46 (DLMS) on other communication interfaces
- Independent communication channels

#### **Power quality**

- Measurement of RMS phase current
- RMS phase voltage
- Power factor
- Network frequency
- Phase angles
- Voltage interruptions

#### **Specifics**

- Backlit LCD display
- Detection of opening main and terminal cover
- External magnetic field detector
- Photo-voltaic ready
- Secured communication channels
- Network anomalies detection

#### **Optional**

- Enhanced Power quality measurement features (Harmonic components, Total harmonic distortion factor, Voltage sags and swells)
- Load control
- SMS call back functionality
- RTC (Li battery or Super-Cap)



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