ISKRAEMECO

Metering is our Business

אטקה
אפקון מקבוצת שלמה

ICG

MT880-M

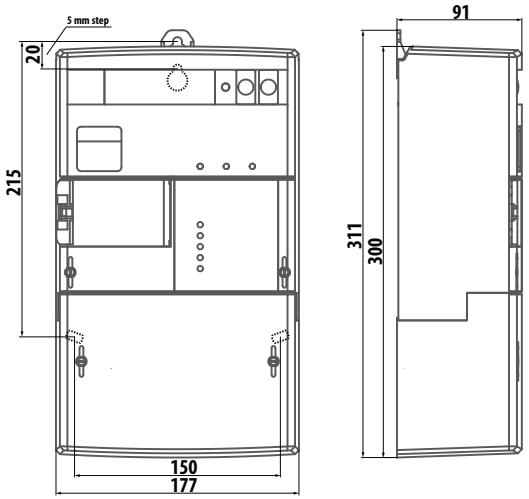
High precision modular meter

- kWh, kvarh, kVAh — Active, Reactive and Apparent Energy
- 4 Quadrant measurement
- MID C, IEC 0,5S — Accuracy class
- Multiple connection types
- CT/VT — Direct or transformer connection
- Power quality according to EN 50160
- Maximum demand
- Load profile
- Load control
- Event log
- Real-time clock
- tariff 8 — Multi-rate registration
- dlms — DLMS – COSEM compliance
- SCADA ready, Modbus — Real time SCADA, Modbus communications protocol
- 3G, 2G, ETHERNET — Communication
- RS232, RS485 — RS232 interface, RS485 interface
- CS, optical port — CS (20 mA current loop) interface, Optical port
- Photovoltaic ready

Iskraemeco MT880 is a precision multi-functional meter ideally suited for large and mid-size commercial and industrial applications. It is designed to provide its users a comprehensive functionality set:

- "No power reading" option via optical port
- Voltage cut, sag and swell detection
- Internal and external power supply
- Extensive anti-tampering features
- Integrated power quality monitoring
- Multiple log books
- Photovoltaic friendly design
- SCADA interface
- DLMS/COSEM protocol for easy integration
- Enhanced TOU structure

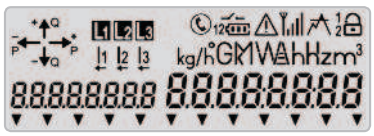
Meter dimensions



Type overview

		MT880-D2..-M directly connected	MT880-T1..-M CT connected	MT880-T1..-M CT & VT connected
Network	High voltage		●	●
	Medium voltage	●	●	●
	Low voltage	●	●	
Connection type	3P4W	●	●	●
	3P3W	●	●	●
	3P3W (two systems)		●	●
Communication type – on board	RS232	●	●	●
	RS485	●	●	●
Communication type – module	CS – RS485	●	●	●
	2G modem – RS485	●	●	●
	3G modem – RS485	●	●	●
	MODBUS TCP/IP & RTU – Analog output	●	●	●
	Ethernet – RS485	●	●	●
Input – output options	3 OPTOMOS outputs + 5A bistable relay	●	●	
	5 inputs, 5 OPTOMOS outputs + 5A bistable relay	●	●	●
	5 inputs, 8 OPTOMOS outputs + 5A bistable relay	●	●	●

Technical specifications

		MT880-D2..-M directly connected	MT880-T1..-M CT connected	MT880-T1..-M 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 In	–	1 A, 1.5 A, 2 A, 5 A, 5//1 A	
	Base current Ib	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 (IEC 62053 - 24), Class 2 (IEC 62053 - 23)		
	Apparent energy	Calibrated up to 1%		
Real-time clock	Accuracy	Crystal: < 5 ppm = ≤ ± 3 min./year (T = +25 °C)		
	Back-up power supply	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 Un	
	Frequency (only for 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				

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)
- Tariff control via RTC or external inputs

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
- MODBUS RTU and MODBUS TCP/IP
- 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
- Photovoltaic ready
- Secured communication channels
- Network anomalies detection

Optional

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

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