

## **IC**G

## MT880-M

High precision modular meter







4 Quadrant measurement













Multiple connection types



Direct or transformer connection



Power quality according to EN 50160



Maximum demand



Load profile





Load control Event log



Real-time clock



Multi-rate registration





DLMS – COSEM compilance IEC 62056 - 21





Real time SCADA, Modbus communications protocol

















CS (20 mA current loop) interface

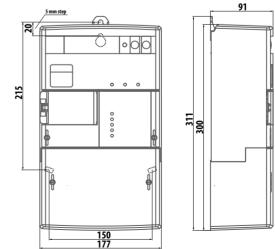


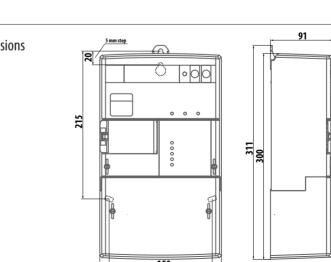
Photovoltaic ready

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
- IEC 62056 21 and DLMS/COSEM protocol for easy integration
- Enhanced TOU structure

## Meter dimensions





## ICG MT880-M High precision modular meter

		MT880-D2M directly connected	MT880-T1M CT connected	MT880-T1M CT & VT connected
		Type overviev	V	
	High voltage		•	•
Network	Medium voltage	•	•	•
	Low voltage	•	•	
Connection type	3P4W	•	•	
	3P3W	•	•	
	3P3W (two systems)		•	•
Communication type – on board			RS232, RS485	
Communication type – m	nodule	CS — RS485, 2G mode	m — RS485, MODBUS TCP/IP & RTU — Analog ot	utput, Ethernet – RS485
		3 OPTOMOS outputs + 5A bistable relay –		
Input – output options		<u> </u>	uts, 5 OPTOMOS outputs + 5A bistable relay, 5 8 OPTOMOS outputs + 5A bistable relay	inputs,
		Technical specific		
Nominal voltage Un		3 x 110/190 V 3 x 240/415 V	3 x 57.7/100 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 % 1 A, 1.5 A, 2 A, 5 A, 5//1 A	
Current	Nominal current In	– 5 A, 10 A	1 A, 1.5 A, 2 I	A, J A, J// I A
	Base current lb	J A, IU A	– Version 1: 6 A, 10 A	-
	Maximal current Imax	120 A	Version 2: 20 A (In = 5 A)	6 A, 10 A
Accuracy class	Active energy	A, B or C (EN 50470 - 3, EN 50470-1) Class 1 (IEC 62053 - 21) Calibrated to 0,5%	A, B or C (EN 50470 - 3, EN 50470-1), Class 1 (IEC 62053 - 21), Class 0.5S (IEC 62053 - 2	
	Reactive energy	Class 1 (IEC 62053 - 24), Class 2 (IEC 62053 - 23)		
	Apparent energy	Calibrated up to 1%		
Real-time clock	Accuracy	Better than ±3 min/year at 23 ℃		
	Back-up power supply	Li battery: 5 years life time up to 20 years		
	Value	– 57.7 – 240 V AC/DC		
External power supply	Tolerance	-	– 0.8–1.15 Un	
	Frequency (only for AC)	-	50 Hz or 60 Hz	
Temperature ranges	Operation	-40 °C +70 °C		
(IEC 62052 - 11)	Storage	-40 °C +85 °C		
Ingress protection IEC 60	529		IP 54	
Liquid Crystal Display			#####################################	
		Basic functiona	·	
Measurement		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			time-of-use (TOU), Tariff control via RTC or exter	
Load profiles		·	s, Programmable and independent Load profiles	
Communication		IEC 62056 - 46 (DLMS) and IEC 62056 - 21 on all communication interfaces, MODBUS RTU and MODBUS TCP/IP, Independent communication channels		
Power quality		Measurement of RMS phase current, R Specific	MS phase voltage, Power factor, Network freque	ncy, Phase angles, Voltage interruptions
Backlit LCD o	display, Detection of opening ma		detector, Secured communication channels, Net	work anomalies detection
244	, , , , , , , , , , , , , , ,	Optional	,	
	15 (1)		actor, Voltage sags and swells), Communication n	11 / T : (11)



Iskraemeco, Energy Measurement and Management 4000 Kranj, Savska Ioka 4, Slovenia Telephone: +386 4 206 40 00

http://www.iskraemeco.com, e-mail: info@iskraemeco.com