MT880

HIGH PRECISION MODULAR METER.

Iskraemeco's leading edge meter - MT880 is a multi-functional precision meter designed for large and mid-sized commercial, industrial and grid applications. The meter provides exceptional state-of-the-art measurement in terms of accuracy, precision, and dependability. With detailed power quality measurement as well enhancement of the grid capabilities. MT880 is as well compliant with the safety standard IEC/EN 62052-31.

iskraemeco
BY ELSEWEDY ELECTRIC

GET THE SOLUTIONS YOU NEED:

Outage Management solution

To minimize losses and power outages, our solution offers near realtime information about network conditions, like alarms, extraordinary events, and other status reports, from as many points as possible (households, feeders, and transformer stations) to distribution and grid personnel. Combining the data of all smart meters from many consumers gives you deep insights into the network's operation.

Balancing solution

To balance electricity, distribution and grid operators need to monitor an array of network status indicators for operators. Iskraemeco meters feature the edge-computing oriented indicators and all data from meters are then transmitted to the upper system. Analyzing such indicators helps improve the grid balance and therefore cut total operational costs. All data from the meters are further transmitted to the upper system, where data analysis is performed and KPIs are evaluated.

Power quality capabilities

- **Slow Voltage Variation Indicator:** presenting RMS voltage value behavior.
- **Voltage Distortion Indicator:** the maximum voltage THD value within the measured period.
- **Voltage Unbalance Indicator:** the imbalance is calculated by measuring phase voltages and phase angles.
- **Voltage Fluctuations Indicator:** long term and short-term flicker severity is calculated, as specified in the IEC 61000-4-15 standard.

			MT880-T1 Indirect connection (CT, CT/VT)
TYPE OVERVIEW			
Network	High voltage		
	Medium voltage		•
	Low voltage		•
Connection type	3P4W		•
	3P3W		•
	3P3W (two systems)		•
Communication type – on board			RS485
Communication type – module (Each communication module has an additional RS485 interface)			2G/4G (With Last Gasp), MODBUS TCP/IP & RTU, Ethernet, LMN, CS – Current source (current loop)
TECHNICAL SPECIFICATIONS			
Nominal voltage Un			3x57,7/100 V – 3x290/500 V
Voltage range			0.8 – 1.15 Un
Reference Frequency			50 Hz ±2% or 60Hz ±2%
Current	Nominal current	In	1 A, 1.5 A, 2 A, 5 A
	Base current	Ib	–
	Maximal current	Imax	Version 1: 6 A, 10 A Version 2: 20 A (In = 5 A)
Accuracy class	Active energy		A, B or C (EN 50470 - 3, EN 50470-1), Class 1 (IEC62053 - 21), Class 0.2s & 0.5s (IEC 62053 – 22)
	Reactive energy		Class 0.5s & Class 1s (IEC 62053 – 24), Class 2 (IEC 62053-23)
	Apparent energy		Calibrated up to 1%
Temperature ranges (IEC 62052 - 11)	Operation		-40 °C ... +70 °C
	Storage		-40 °C ... +85 °C
Ingress protection IEC 60529			IP 54

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