MANAS
Innovation For Future

ELECTRICITY

MAN1000

New Generation Single Phase Electricity Meter



The device increases grid efficiency with improved measurement accuracy, remote monitoring and management capabilities. Thanks to its flexible structure, it adapts to different application scenarios, optimizes investment costs and contributes to long-term business continuity.

MAN1000 is not just a meter, it is a strategic tool in the digital transformmation of your network.

Main Advantages:

- High measurement accuracy and reliability
- Bi-directional energy measurement (consumption and production)
- Easy integration with modular structure
- Advanced Smart Meter functions
- Remote reading and control support
- Detection of and prevention from energy losses

Smart Measurement

MAN1000 meters with state-of-the-art digital technology are designed for accurate measurement of active and reactive energy for residential and light commercial and industrial applications. Compliant with EU standards,- MAN1000 meter measures active and reactive energy in bi-directions (import,export).

Tariff

The MAN1000 meter supports the multi-tariff applications based on the internal real time clock.

- 8 time periods for one day profile
- 4 day profile
- 4 week profile
- 4 season profile
- 10 special day profile

Memory

MAN1000 keeps data for previous 24 months. This data can be read via optical port or communication ports even there is no power. By virtue of historical data, customer's consumption can easily be followed and reports can be created.

Load Profile

It registers the load profiles up to 3 channels into its memory. Load profile periods can be adjusted as 5, 10, 15, 30 and 60 minutes.

Real Time Clock

Temperature compensated real time clock prevents time shifts caused by ambient temperature. This ensures correct timing for tariff and Summer/Winter time shifts are done automatically.

Added Value

MAN1000 meters with latest-generation metrological and communications technologies brings significant benefits to utilities and end-users with pre-payment and post-payment options.

Tamper Detection
By virtue of its magnetic area detection; it enables any type of manipulations to be detected easily. Records tampering warnings with date and hour when the terminal and main covers of the meters are opened.

Communication
The MAN1000 meter has an optical interface that complies with the IEC 62056-21 standards. Other optional communications include; RS485, cotactcless card, RF868, NBIoT.

Prepayment System
There are versions designed for prepayment system applications with internal relay control and contactless card. This system allows utilities to easily manage energy supply and accounting.

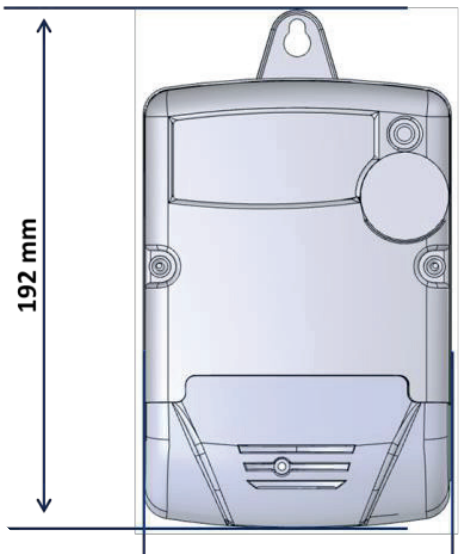
Outage Information
It keeps outage information which is less than 2 minutes, in its memory with date and time.

Easy Installation
It can be easily installed on the existing meter panels due to its dimensions without the need of renewing measurement point.

Multi-Tariff
Multi-tariff billing for energy. 4 energy tariff registers are avaliable, tariff switching is performed by internal clock.

Technical Specifications

PARAMETERS	DESCRIPTION
Meter Type	MAN1000 Single Phase
Phase and Wiring Connection	1 Phase – 2 Wires
Ratings	Voltage: 220-240V Direct Current: Ib5 A, Imax100 A
Frequency	50 Hz
Min. Current	0,25 A
Transitional Current	0,5 A
Network Type	Direct connection (Import and Import/Export)
Meter Constant	1000 imps/kWh for active energy 1000 imps/kVarh for reactive energy
Accuracy Class	Active Class B Reactive Class 2
Tariff	Multi Tariff: Time based Consumption based Combo
Mechanical /Electromagnetic Class	M1/E2
Battery Life-Time	Operating: 10 Years, Shelf: 4 years min.
Specified Operating Range	3K7
Installation Place	Outdoor
Protection Class	IP54
Time Accuracy	0.5 sec/day
Data Protection	Non-Erasable Memory
Communication	IR/Port IEC 62056-21 RS485 Protocol (IEC 62056-21) Contactless Card
Optional Contactor	Latch Relay
Weight	0.5kg
Options	Pre-payment / Post payment
Standards	MID standards 2014/32/EU and CE marking standards





MANAS reserves the right to make changes to the catalog content without prior notice.

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