

Metering is our Business

SMART

Mx382

Electricity meter with GSM/GPRS communication



Ingress protection

Load profile

Optical port

Real-time clock

Event logs

DLMS — COSEM compliance

Multi-rate registration

MID B IEC 1 Accuracy class

Remote connection/disconnection

Photo-voltaic ready

M-Bus M-Bus communication

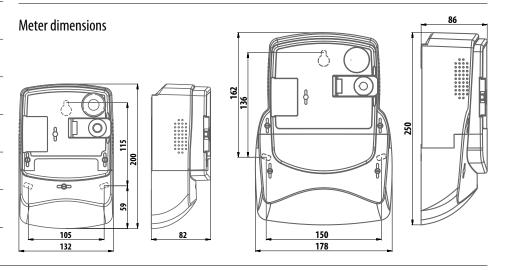
GSM/GPRS communication

Alarming

Single and Poly phase smart electricity meter, based on GSM/GPRS communication is the cost optimal solution for smart residential and mid-size commercial environments. This future-proof investment includes:

- Remote connection/disconnection
- Multi-Energy management (gas, water, heat)
- Extensive anti-tampering features

- Customer port for in-house display
- Secure communication with encryption and authentication
- Photo-voltaic friendly
- Integrated demand/response functions
- DLMS protocol for easy integration
- Import/export energy measurement



| Type overview | | ME382-D3 BS | ME382-D1 DIN | MT382-D1 DIN | MT382-D2 DIN | MT382-T1 CT – DIN | |
|---------------------------|------------------------|--------------------|-----------------|-----------------|-----------------|-----------------------------|---|
| Network | | Medium voltage | | | • | • | • |
| | | Low voltage | • | • | • | • | • |
| Connection type | | 1P2W | • | • | | | |
| | | 3P4W | | | • | • | • |
| Communication - | | Optical port | • | • | • | • | • |
| | | RJ11 port | • | • | • | • | • |
| | | M-Bus | • | • | • | • | • |
| | | GSM/GPRS | • | • | • | • | • |
| Input – output options | Output 6 A/230 V relay | | • | • | • | • | • |
| | Output OPTOMOS 0.1 A | | • | • | • | • | • |
| | Input alarm | | • | • | • | • | • |
| | External key input | | • | • | • | • | • |

| Technical specifi | ME382-D3 BS | ME382-D1 DIN | MT382-D1 DIN | MT382-D2 DIN | MT382-T1 CT – DIN | | |
|------------------------|--|--|-----------------|-----------------|----------------------|-----|--|
| Nominal voltage Un | | 240 V | | 3 x 240/415 V | | | |
| Voltage range | 0.8 – 1.15 Un | | | | | | |
| Reference frequency | 50 Hz or 60 Hz | | | | | | |
| | Nominal current In | _ | _ | - | _ | 5 A | |
| Current | Base current lb | | 5 or 10 A | | 10 A | _ | |
| | Maximal current Imax | 100 A | 85 A | | 120 A | 6 A | |
| | Active energy | Class 2 or Class 1 A or B (EN 50470 - 3, EN 50470 - 1) | | | | | |
| Accuracy class | Reactive energy | Class 3 or Class 2 | | | | | |
| | Apparent energy | Calibrated up to 3% | | | | | |
| Real-time clock | Accuracy | <5ppm or <±3 min/year | | | | | |
| Real-tille Clock | Back-up power supply | Super-Cap: > 7 days; Li battery: 10 years, life time up to | | | 20 years | | |
| Switching device | Integ | ırated | External | | - | | |
| Temperature ranges | Operation | -25 °C +70 °C; extended -40 °C +70 °C | | | | | |
| (IEC 62052-11) | Storage | -40 °C +80 °C | | | | | |
| Ingress protection IEC | IP54 | | | | | | |
| Liquid Crystal Display | -P + Q +P L1 L2 L3 MkVArh -P - Q +P L1 L2 L3 MkVArh 11 T2 T3 T4 MB SD SQ REGDRO FF EC T5 T6 T7 T8 | | | | | | |

Basic functionality

Measurement features

- Two way ("energy") measurements
- Active energy and power, 4Q Reactive energy & power, Apparent energy & power, Instantaneous value of voltage, Current, Power factor, Frequency and Power
- Absolute measurement of active energy & power

Tariff functions

 Time-of-use (TOU) measurement of active energy and maximum demand (up to 8 tariffs, 12 seasons, 12 weekly programs, 16 masks, 16 switches)

Load profiles

- Two Load profiles with different daily and hourly registration periods with up to 32 objects
- Four separate profiles for sub-metering (M-bus)
- Seven separate Event logs for different objects

Communication

- Full DLMS-COSEM and IEC 1107 compliance
- Four independent communication interfaces:
 - Optical port
 - RJ11 (for in-house display)
 - M-bus (wired)
 - GSM/GPRS

Power quality

 Voltage sag, swell and cut, Daily peak and minimum, Voltage and current asymmetry, Power failure

Specifics

- Backlit LCD display
- Detection of opening main and terminal cover
- External magnetic field detector
- Detection of meter wiring
- Prepayment
- In-house display support
- Power quality supervision
- Photo-voltaic ready
- Secured communication channels
- Switching device up to 3x100A (UC3)
- Remote FW upgrade

Optional

- RTC (Li-battery or Super-Cap)
- M-Bus (wireless with external dongle)
- ZigBee (wireless with external dongle)



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