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# Mx382

idis

3

Electricity meter with GSM/GPRS/UMTS communication

	4 Quadrant measurement
BS	DIN BS / DIN housing
$\checkmark$	Multiple connection types
СТ	Direct or current transformer connection
IP54	Ingress protection
have	l oad profile

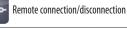
Optical port Real-time clock

Event logs

dlm DLMS - COSEM compliance tarifi 8

Multi-rate registration

MID B IEC 1 Accuracy class



Photovoltaic ready

M-Bus M-Bus communication

GSM GPRS

GSM/GPRS communication

idis **IDIS** interoperability

Alarming

Single and Polyphase smart electricity meter, based on GSM/GPRS/UMTS communication provides the most reliable data transmission in smart residential and mid-size commercial environments. This future-proof investment includes:

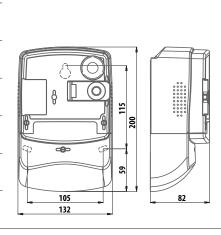
CE

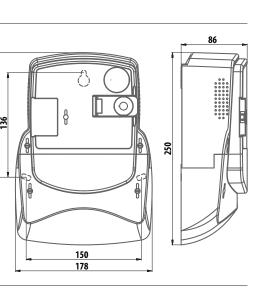
• IDIS interoperability

Meter dimensions

- Remote connection/disconnection
- Multi-Energy management (gas, water, heat)

- Extensive anti-tampering features
- Customer port for in-house display (RJ11)
- Secure communication with encryption and authentication
- Photovoltaic friendly design
- Integrated demand/response functions
- DLMS protocol for easy integration
- Import/export energy measurement





## SMART Mx382 Electricity meter with GSM/GPRS/UMTS communication

Type overview		<b>ME382-D3</b> BS	ME382-D1 DIN	MT382-D1 DIN	MT382-D2 DIN	<b>MT382-T1</b> CT – DIN	
Network		Low voltage	•	٠	٠	٠	•
Connection type 1P2W   3P4W		1P2W	•	٠			
		3P4W			•	•	•
Communication		Optical port	•	٠	٠	٠	•
		RJ11 port	•	٠	٠	٠	•
		M-Bus	•	٠	٠	٠	•
		GSM/GPRS/UMTS	•	٠	٠	٠	•
Input - output options	Output 6 A/230 V relay		•	•	•	•	•
	Output OPTOMOS 0.1 A		•	•	•	•	•
	Input alarm		•	•	•	•	•
	External key input		•	•	•	•	•

Technical specifi	<b>ME382-D3</b> BS	ME382-D1 Din	MT382-D1 DIN	MT382-D2 Din	<b>MT382-T1</b> 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 Ib	5 or 10 A 10 A			-		
	Maximal current Imax	100 A	85	5 A	120 A	6 A	
	Active energy	Class 2 or Class 1 (IEC62052-11, IEC62053-21 A or B (EN 50470 - 3, EN 50470 - 1)					
Accuracy class	Reactive energy	Class 3 or Class 2 (IEC62053-23)					
	Apparent energy	Calibrated up to 3%					
Real-time clock	Accuracy	< 5ppm or <±3 min/year					
Redi-time Clock	Back-up power supply	Super-Cap: > 7 days; Li battery : 10 years, life time up to 20 years					
Switching device	Integrated Ex		Exte	ernal	-		
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	$\begin{array}{c} -P \xleftarrow{+ 4 Q} \\ - V Q \end{array} \xrightarrow{+ 4 Q} +P \\ \hline L 2 L 3 \\ \hline M K VA rh \\ \hline 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0$						

### **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/UMTS

#### **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
- Photovoltaic ready
- Secured communication channels
- Switching device up to 3x100A (UC3)
- Remote FW upgrade
- RTC (Super-Cap)

#### **Optional**

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



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