



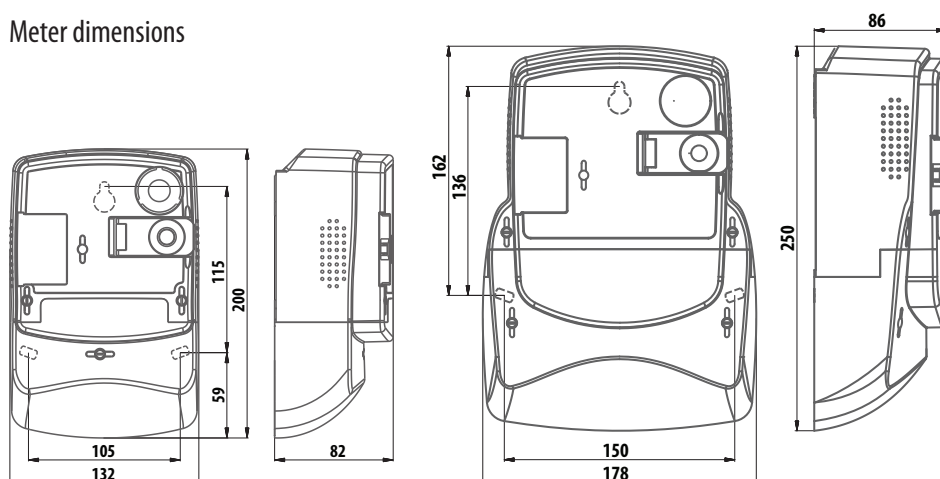
idIS

	4 Quadrant measurement
	 BS / DIN housing
	  Multiple connection types
	Direct or current transformer connection
	Ingress protection
	Load profile
	Optical port
	Real-time clock
	Event logs
	DLMS – COSEM compliance
	Multi-rate registration
	 Accuracy class
	Remote connection/disconnection
	Photovoltaic ready
	M-Bus communication
	 GSM/GPRS/UMTS communication
	Alarming
	IDIS interoperability

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:

- IDIS interoperability
- 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

Meter dimensions



		ME382-D3 BS	ME382-D1 DIN	MT382-D1 DIN	MT382-D2 DIN	MT382-T1 CT – DIN
Type overview						
Network	Low voltage	●	●	●	●	●
Connection type	1P2W	●	●			
	3P4W			●	●	●
Communication		Optical port, RJ11 port, M-Bus, GSM/GPRS/UMTS				
Input – output options		Output 6 A/230 V relay, Output OPTOMOS 0.1 A, Input alarm, External key input				
Technical specifications						
Nominal voltage	Un	–	120 V	3 x 120/208 V		–
		240 V, 230 V, 240 V		3 x 230/400 V, 3 x 240/415 V		
Voltage range		0.8 – 1.15 Un				
Reference frequency		50 Hz or 60 Hz				
Current	Nominal current In	–	–	–	–	5 A
	Base current Ib	5 or 10 A				10 A
	Maximal current I _{max}	100 A	85 A		120 A	6 A
Accuracy class	Active energy	Class 2 or Class 1 (IEC62052 - 11, IEC62053 - 21) A or B (EN 50470 - 3, EN 50470 - 1)				
	Reactive energy	Class 3 or Class 2 (IEC62053 - 23)				
	Apparent energy	Calibrated up to 3%				
Real-time clock	Accuracy	< 5ppm or <±3 min/year				
	Back-up power supply	Super-Cap: > 7 days; Li battery : 10 years, life time up to 20 years				
Switching device		Integrated		External		–
Temperature ranges (IEC 62052 - 11)	Operation	-25 °C ... +70 °C; extended -40 °C ... +70 °C				
	Storage	-40 °C ... +80 °C				
Ingress protection IEC 60529		IP 54				
Liquid Crystal Display						
Basic functionality						
Measurement		Two way ("energy") measurements, Active energy & 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 independet Event logs for different functionalities				
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, GSM/GPRS/EDGE 850/900/1800/1900MHz; W-CDMA (UMTS) 900/2100MHz				
Power quality		Voltage sag, swell and cut, Daily peak and minimum, Voltage and current asymmetry, Power failure				
Specific						
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, 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), GSM/GPRS/EDGE 850/900/1800/1900MHz; W-CDMA (UMTS) 850/1900MHz						