



MA304T3

Smart Poly Phase Meter

- Smart meter MA304T3 for smart energy data management
- Compliant with DLMS/COSEM and M-Bus
- Modular WAN/LAN capacity and HAN equipment's management
- Improve revenue and energy efficiency with advanced measurement with TOU
- Accurate clock and daylight saving time supported
- Remote authenticated firmware upgrade
- Protect from fraud or tampering, alarm and events record
- Security, reliability
- optional short terminal cover for convenient installation
- Advanced design for operating costs reduction



Main features

- **Measurement**

- Total active and reactive energy
- Import and Export active and reactive energy
- Instantaneous voltage and current, PF, Vrms, Irms, active and reactive power

- **Billing data**

- 175 days meter & M-Bus equipments data available
- Cumulative active and reactive energy

- **Profiles for energy and power quality**

- 4 programmable channels for active and reactive energy and power quality profile
- Programmable profiles capture period (typically 5, 10, 15, 30 or 60 minutes)

- **Real time clock**

- Accuracy according to IEC 61038
- Daylight saving time supported
- Synchronization with Time zone available

- **Communication interface**

- WAN communication to CS via RF between meter and gateway or via LTE M/ GPRS/ NB-IoT/ LTE
- HAN communication with Wired M-Bus to smart water/gas/heat meter
- Wired M-Bus supports up to 50mA power supply
- Available interface to IHD or more applications
- Optical local communication, IEC62056-21 mode E

- **Display**

- LCD without backlit, With OBIS code and icons. Four programmable display mode
- Two LED, for active and reactive energy pulse output

- **Anti-tamper features**

- Main and terminal cover open detection (power on and power outage)
- Access with incorrect key and reply
- Magnetic field detection

- **Event record**

- Up to 40 kinds of event record with timestamp
- Power failure long term / short term
- Tampering events
- Voltage related events
- Firmware upgrade events

- **Privacy and security**

- Support high level security 3, 4, 5 with encryption and authentication
- Keys change wrapping

- **Advanced flexible platform design**

- Support different communication channels GPRS / LTE / LTE M/ NB-IoT/ RF mesh/ PLC
- Replace communication module without turning off
- Support authenticated firmware upgrade remotely/locally
- Compliant with DLMS/COSEM and M-Bus





Technical specifications

Reference standard

- EN 50470-1, EN 50470-3, IEC 62055-21, IEC 61008-1, IEC 62059-31/41, IEC 62052-11, IEC 62053-21/22/23
- IEC 62056-21/46/53/61/62 EN 13757-2/4 EN55022

Approval

- DLMS
- MID/IEC

Electrical

Accuracy	Active	Class C
	Reactive (optional)	Class 2
Voltage	Rated voltage	3*230;3*57.7;3*127;3*220;3*240V
	Voltage withstand	440V
	Operation voltage range	80% to 120% Un
Current	Rated current	1(6)A;1(10)A;5(10)A;
	Starting current	1mA
Frequency	50Hz(60Hz) ± 5%	
Power consumption	Voltage circuit	≤1.4W, 10VA
	Current circuit	≤0.5VA
Pulse constant	10000imp/kWh	

Reliability

Meter Life	20 Years
Data retention	>20 Years

Mechanical

Dimensions (L x W x H)	249 x 170 x 89(mm)
Weight (Kg)	1.1
Enclosure material	PC+GF
Terminals	professional Lifting system with wrong connection prevention
Insulation protection	Class II

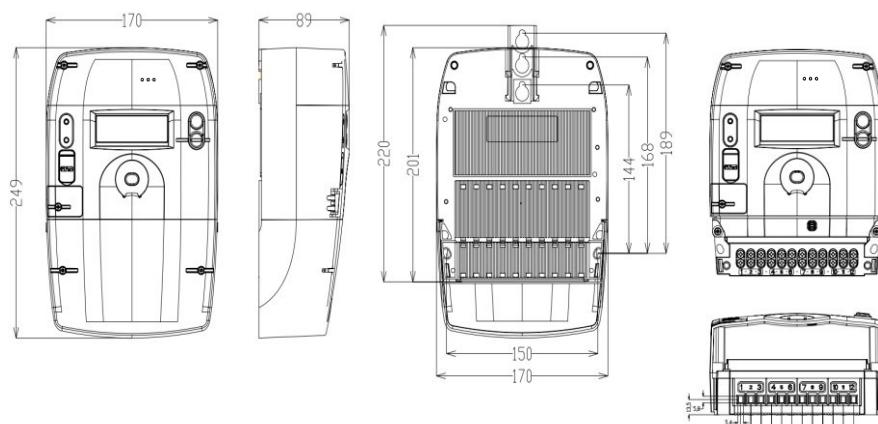
Environmental

Operating temperature	-40°C to 70°C
Storage temperature	-40°C to 70°C
Operating humidity	Maximum 95% RH
Ingress protection	IP51

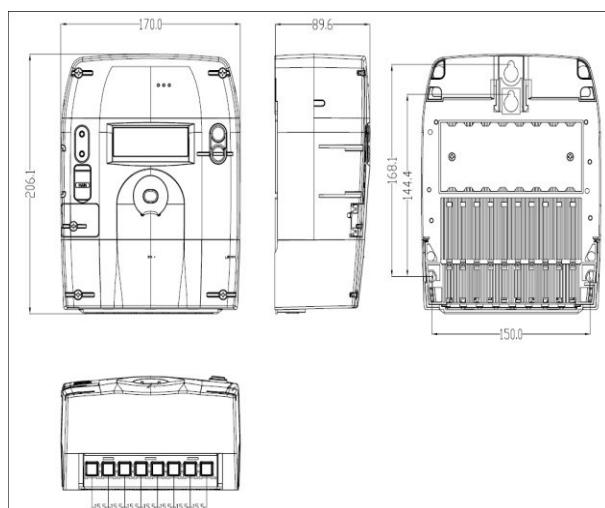


Overall dimensions

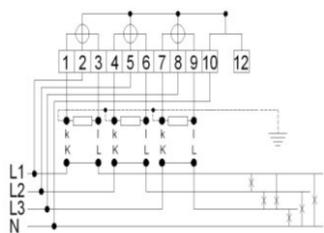
Long terminal cover



Short terminal cover



Wiring diagram



Display format

