Product Sheet
Version 1.1
KWHIQ
IQCT04000br2

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Smart Poly Phase Meter

- Compliant with DLMS/COSEM and Wireless M-Bus
- P1 port push data according to SMR 5.1
- Accurate clock and daylight saving time supported
- Remote authenticated firmware upgrade
- Protect from fraud or tampering, alarm and events record
- Security, reliability
- Auxiliary relay for output control
- Improve revenue and energy efficiency with advanced measurement

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
  - ✓ 13 months energy data available
  - ✓ 45 days max/min/inst voltage L1/L2/L3, inst P+, P-, R+, R-
- Profiles for energy and power quality
  - ✓ 4 programmable channels for active and reactive energy and power quality profile
  - ✓ Programmable profiles capture period
  - ✓ 45 days Max/min/ave voltage L1/L2/L3;
- Real time clock
  - ✓ Accuracy according to EN62054-21; Daylight saving time supported; Remote and local synchronization available
- Communication interface
  - ✓ WAN communication via LTE/GPRS
  - ✓ P1 port
  - ✓ Utility interface: Wireless M-bus; Optical local communication
- Display
  - ✓ LCD without backlit, With OBIS code and icons.
  - ✓ Three 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 255 kinds of event record with timestamp; Power failure; Tampering; Voltage related events; Relay control events; Firmware upgrade events
- Privacy and security
  - ✓ Support high level security 5, 6, 7 with encryption and authentication; Keys change wrapping

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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	Class 2
Voltage	Rated voltage	3*230/400V; 3*110V/190V; 3*127/220;3*220V/380V;3*240V/415
	Voltage with standard	440V
	Operation voltage range	80% to 120% Un
Current	Rated current	1(6)A
	Starting current	1mA
Frequency	50/60 Hz ± 5% Hz	
Power consumption	Voltage circuit	≤2W, 10VA
	Current circuit	≤1VA
Pulse constant	2000 imp/kWh	
Switch relay	Imax=65A	

Reliability

Meter life	15 years	Data retention	≥15 years

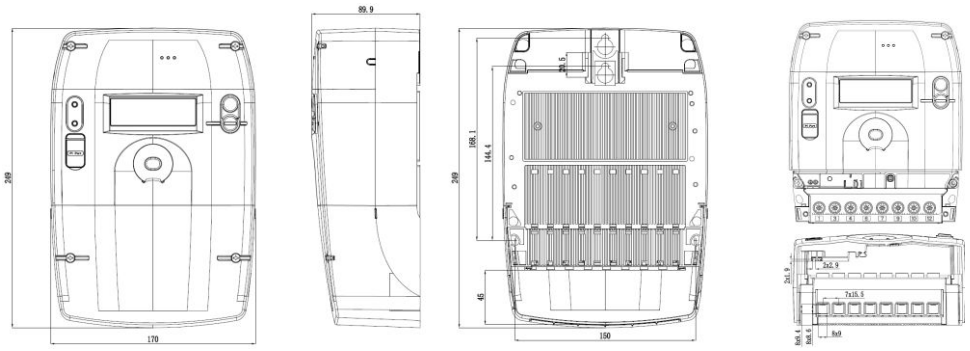
Mechanical

Dimensions (LxWxH)	249 x 170 x 89.9(mm)	Weight (Kg)	1.4
Enclosure material	PC+GF	Insulation protection	Class II
Terminals	professional Lifting system with wrong connection prevention		

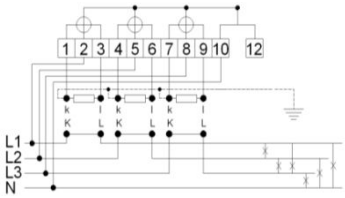
Environmental

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

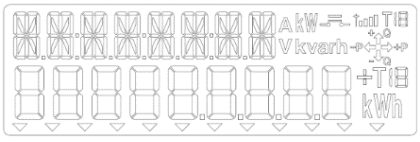
Overall dimensions



Wiring diagram



Display format



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