



Technical Data

- » Technical Data
- » For 3 phase 4 wire network
- » Class 1.0 for active energy
- » 4 tariffs and 8 time term
- » Two-way measuring energy
- » Current and Voltage detect
- » IR comm. Port for HHU
- » PLC communication for AMR
- » Load detect and Control
- » Relay control output
- » Design for pre-payment and Remote control To IEC 62052-11 - IEC 62053-21

Basic Functions

- Active and reactive energy measurement: active class I and reactive class II according to EN 61036 and EN 61268
- Two communication modes: PLC and infrared communication
- Multi tariff support: multiple tariff and time period can be configured
- Prepayment support: Credit is downloaded into the meter. Limit value generates notification
- Contractual limit control: built-in Relay Enables the operator to cut off the power
- Configurable LCD display: providing rich and configurable display dataset
- Load restriction adjustment: contractual maximum power and demand can be adjusted
- Load profile recording: 35 days of active and reactive load curve can be saved
- Quality service data recording: detecting and recording of voltage interruption and variation
- Anti-tamper function: detecting of illegal tie-in or unauthorized access to the meter
- Table-like data access: providing flexible data access
- Meter working status diagnosis: giving internal hardware abnormality and reverse phase line connection
- Using as a repeater: the meter can be taken as a repeater at the same time to extend the distance of PLC communication. Each meter acts as a repeater to extend the PLC communication distance.
- Secured communication mode: password authentication method to protect the writing operation in PLC mode and reading & writing operations in local infrared mode
- Software can be updated via IR comm. or RS232 using a PC or HHU.
- Push button should be included for data scrolling and power restore in a case of disconnect.



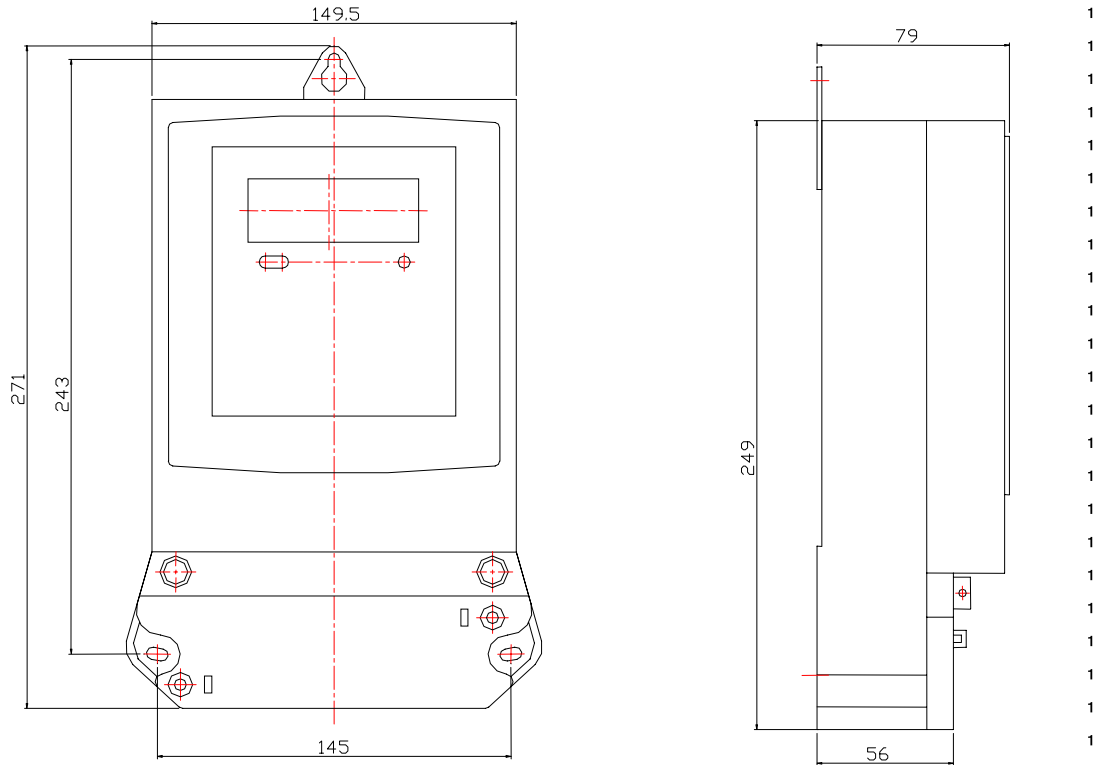
PCR323

3PHASE ELECTRONIC PLC METER

Technical Data

GENERAL DATA		(Un = Refr. voltage, Ib = Basic current)
Un		3 x 220/380 V
VOLTAGE RANGE		0.7 ... 1.3Un
NOMINAL FREQUENCY		50 Hz
TYPE		10(60)A
REFR. (BASIC) CURRENT		Ib=10 A
MEASURE RANGE		
- METERING		500 mA...60 A
- STARTING CURRENT (0.2% Ib)		< 20 mA
LOAD CAPACITY		
METERING I _{MAX}		60 A
THERMAL		72 A
SHORT CIRCUIT 0.01 S		30 x I _{max}
POWER CONSUMPTION		
VOLTAGE CIRCUIT (PER PHASE)		< 1.5W(5VA)
CURRENT CIRCUIT (PER PHASE)		< 0.5VA
METER CONSTANT		800 imp/kWh
ACCURACY CLASS		Class 1.0 (Typical in 50% Standard level)
TEST OUTPUT (LED)		
- PULSE FREQUENCY		1Hz (I= Ib)
- PULSE LENGTH		90ms (±20ms)
DISPLAY		
- LIFE TIME		> 10 years
- SYMBOL SIZE		10mm x 5mm
TRANSMITTING CONTACT		
- LOAD CAPACITY		Max. 24V, 10mA
- LIFE TIME		3 x 10 ¹⁰ pulse
- PULSE LENGTH		90ms
RELAY CONTROL OUTPUT		3x60A
COMMUNICATION		
- PLC		600bps, Point-Point 2000m, 2 levels intelligent relay up to 6000m
- IR		1200bps
- PROTOCOL		Modbus
PROTECTION CLASS		IP 52 (IEC529)
TEMP COEFFICIENT		< ±0.02% / °C (-25°C to 65°C)
TEMPERATURE RANGE		
- SPECIFIED OPERATE RANG		- 20°C ~ + 60°C
- LIMIT RANGE OF OPERATION		- 25°C ~ + 65°C
- STORAGE AND TRANSPORT		- 30°C ~ + 70°C
IMPULSE VOLTAGE TEST		6kV (typical 12kV)
INSULATION		2/4kV, 50 Hz / 1min
EMC		
-ELECTROSTATIC DISCHARGES		To IEC 61000-4-2, contact discharges, 8 kV (typical 10kV)
-ELECTRO. HIGH FREQ. FIELD		To IEC 61000-4-3, 80~1000Mhz, 10V/m (typical 15V/m)
-ELECTRICAL FAST TRANSIENT / BURST		To IEC 61000-4-4, 2/4 kV, (typical 4/6kV)
-SURGE VOLTAGE TEST		To IEC 61000-4-5, 2/4 kV, (typical 4/6kV)
RADIO INTERFERENCE		To IEC/CISPR 22, Class B equipment
METER LIFE		> 10 years
DIMENSION (L X W X H)		272 x 172 x 75 mm

Installation



Dimensions in mm

Connection diagram

