



M180RSB

General Overview

M180RSB - single phase prepayment watt-hour meter with Power Line Communication (PLC) interface for receiving and transmitting data over the power network to central unit (Concentrator).

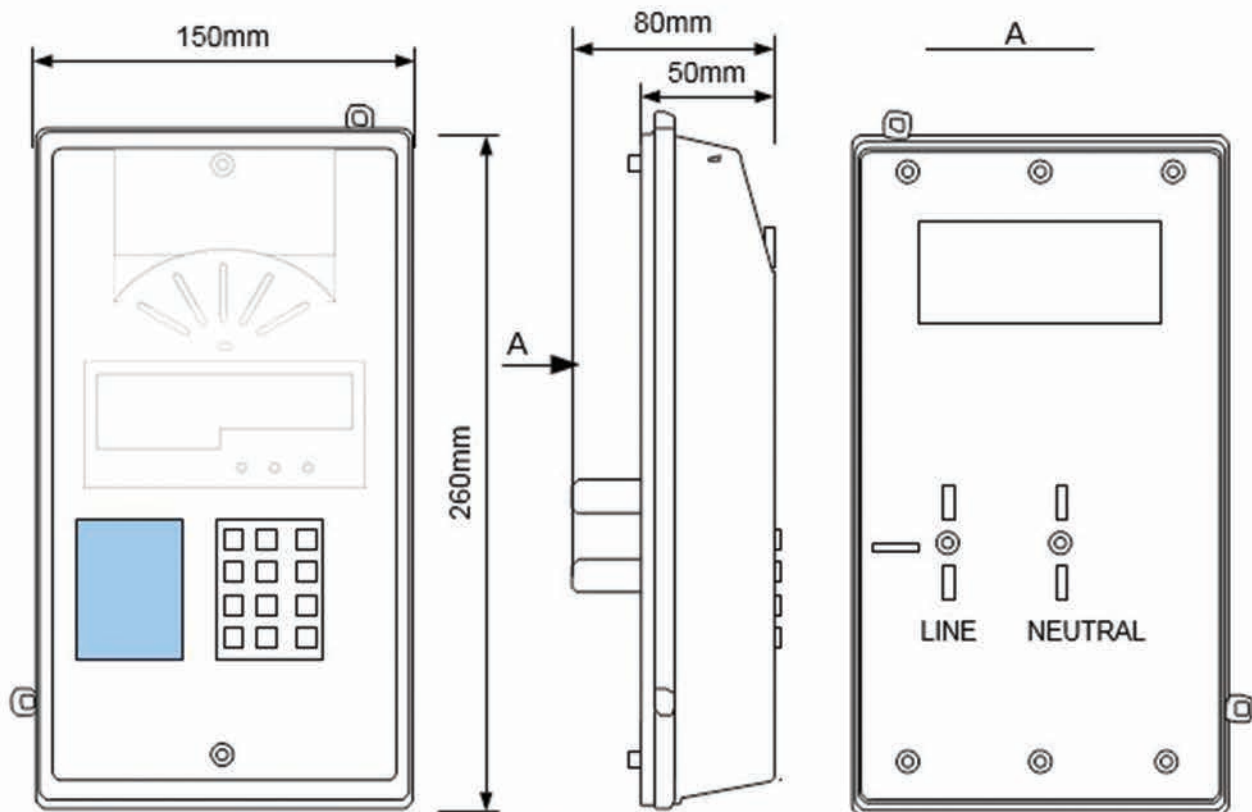
Features:

- IEC1036, 20(80) A, Class 1 or Class 2, direct measurement static watt-hour meter.
 - Real two-way "A" band Power Line Communication
 - Automatic calibration (NO physical adjustment)
 - Calculates locally Time of Use (TOU) consumption at multiple tariffs.
 - internal 100A load switching element.
 - 4 Quadrant Measurement (Bidirectional Active Energy& Reverse Energy)
 - Remote disconnection.
 - Remotely limits customer maximum power demand.
 - Prepayment STS operation, simple& TOU.
 - Keypad entry for prepaid energy, STS tokens.
 - Reconnection controlled by customer.
 - Measures and reports line voltage.
 - Repeats and amplifies signals transmitted by other distant units – No distance limitation.
 - Non-volatile backup memory
 - 2 line 16 character illuminated large LCD display.
 - 256 character general or individual messaging on bottom line.
 - Stand alone unit operation.
 - Reads Water/GAS meters using unlicensed RF communication, and sends to the concentrator.
- Front panel pocket for keeping STS receipts..

Technical Specifications

General	
Nominal Voltage (Un)	230V
Supply voltage range	80% - 115% Un
Nominal frequency (fn)	50 Hz
Meter consumption at Un	1.2W – 8Var
Measurement	
Class index according to IEC61036	Class 2
Basic current (Ib)	20A
Maximum continuous current (Imax)	80A
Starting current acc. to IEC 62053-21	0.005 Ib
Environmental	
Temperature range	
operation	-10 °C to 55 °C
storage	-25 °C to 70 °C
Insulation Strength	
Protective class acc. to IEC 62052-11	Class II
AC voltage withstand	4kV at 50Hz during 1min.
Display	
Type	LCD with LED back light
Format	16 Characters x 2 Lines
Character size	9.55mm x 5.2mm
LED Indicators	
Peak tariff	Red
Standard tariff	Yellow
Off Peak tariff	Green
Flash rate	1000 imp/kWh
Communication Interfaces	
Optical IrDA Baud rate	9600bps
PLC Frequency range	A-band 60-90 kHz
PLC Method	Spread FSK
RF (receive only) Frequency	Unlicensed 433 MHz
Disconnection Device	
Type	Single pole latching contactor
Maximum switching current	100A
Maximum switching power	24kVA
Electrical life	10 000 operation minimum
Keypad	
Type	3 x 4 Key, Numeric Keypad compliant with STS tokens.
Weight/External dimensions	
Weight	730g
Width	150 mm
Height	260 mm
Depth without terminals	50 mm

Technical Specifications



Electricity meter PLC101 mounted on a Standard Base.

Type designation

Mode	PLC	10	1
PLC - Prepayment Load Control Meter with PLC interface			
Power network type			
Single phase two-wire network			
Model number			