SPM-3

SPM-3 is designed for single and three phase power monitoring and measurement. It provides wide range of measurements including current, voltage, energy, watt, power factor, watt-hour, frequency…etc.
Built in RS485 function can be easily integrated with most third SCADA system.

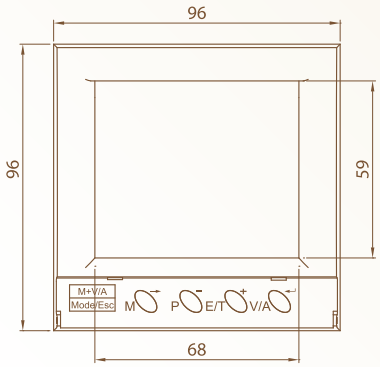
Standard DIN 96×96 enables SPM-3 to be installed easily and its low cost and wide flexibility application also makes SPM-3 a good choice for modern power monitoring.

Features

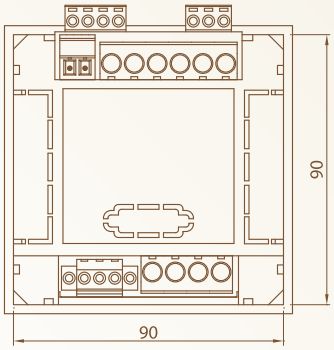
- Compact size, standard DIN 96×96, equipped with four latches to tight the meter on panel
- Accuracy - wh<0.5%(PF=1)
- LCD display
- RS485 communication protocol

Installation

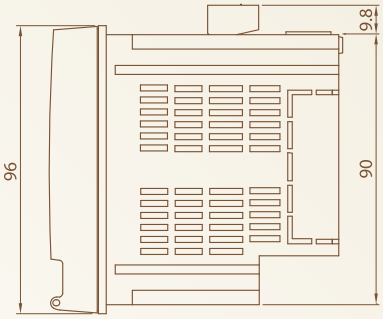
Front View (mm)



Rear View (mm)



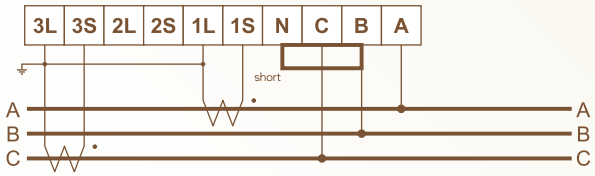
Side View (mm)



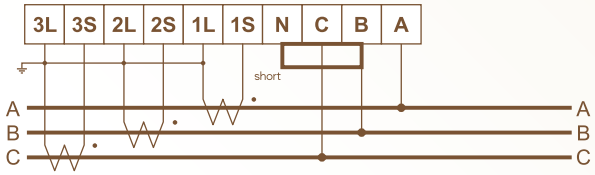
Note. Four support latches must be placed in position after mounting.
Panel cut-out area is 92 × 92mm

Wiring

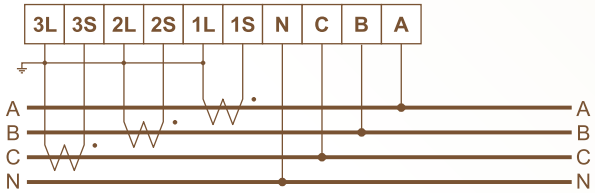
3P3W/2CT



3P3W/3CT

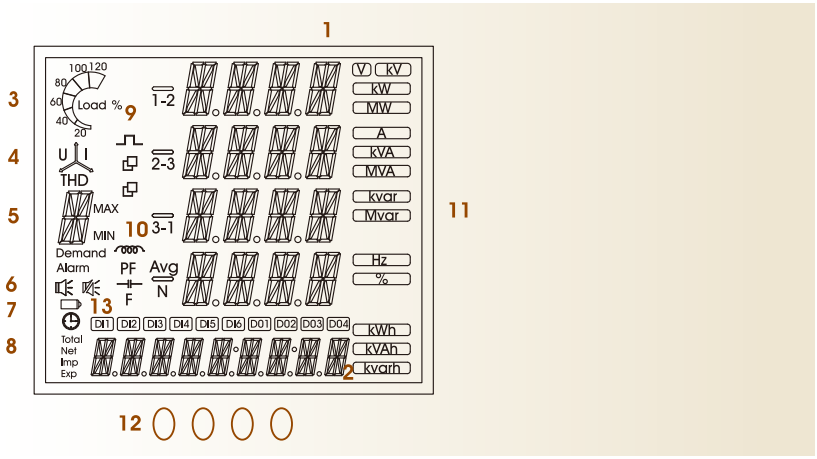


3P4W/3CT



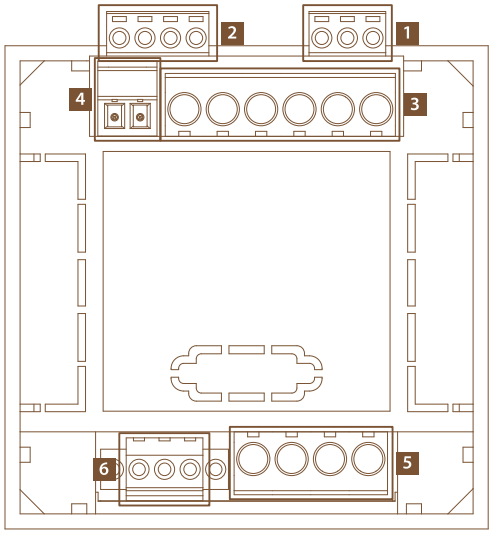
Display

The SPM-3 is equipped with a large back-lit LCD and 4 function buttons. It shows up to five measure errant simultaneously.



Item	Display Reading
1	Values for V, I, kW..... Demand, eligibility rate and unbalance rate
2	Values for energy & time
3	Load percentages
4	Unbalance rate indicator
5	Types of measurement (I, U, E, P....)
6	Alarm on/off
7	Indicator for time display in zone 2
8	Indicator for energy display in zone 2
9	Indicator for pulse output and communication
10	Display for power factor and load characteristics
11	Units for measurements
12	Function Buttons, "M","P","E/T","V/A"
13	DO1, DO2 Status

Connection Port



Item
1. Aux Power (N-, L+)
2. Digital output (Com2 DO2 Com1 DO1)
3. Current Terminal (3L 3S 2L 2S 1L 1S)
4. Lon Port (D-, D+)
5. Voltage Terminal (N, C, B, A)
6. RS485 Port (D-, COM, D+)

Specification

Auxiliary Power	AC80-264V/DC100-300V, Max. 2.3W
Input Voltage	CATII 10V-600V L-L*
Input Current	2 mA-5A
Accuracy	V、I 0.2%, W 0.5% (PF=1.0)
Frequency	45-65Hz
Measures	V, I, kW, kvar, kVA, kWh, kvarh, kVAh, PF, Frequency, Demand, Running hour
Alarms	NONE、OVER V/I、OVER F； UNDER V /I、UNDER F； OVER Dmd； ANY
Power Quality	V/I unbalance、V Eligibility、Min.& Max. parameters
Display	Mono 68×59 LCD
Communication	RS485×1, LonTalk **(option)**
Timer	RTC
Wiring Ports	Aux Power、Voltage、Current、DO×2、RS485、LON
I/O	DO output×2；DO1 Alarm output、DO2 Pulse/ Alarm output
Operation Temperature	-20℃-70℃
Storage Temperature	-25℃-80℃
Humidity	20-90%RH
Dust/Water Proof Rating	Panel：IP52，Case：IP20
Size	96(W) × 96(H) × 97(L) mm
Power consumption	0.45~0.7W (Backlight off) 1.3~1.7W (Max. Backlight) 2.3W (Max. Backlight & Lon module)
Environmental Conditions	Indoor use Altitude up to 2000M Transient overvoltage on the mains supply is 2500V Pollution degree: 2

*CATII-Is for measurement performed on circuits directly connected to the low voltage installation

Certificate

1. LVD : EN61010-1
2. CE :

EN61326 Conducted Emission EN61326 Radiated Emission EN61000-3-2 Harmonic Current Emission

EN61000-3-3 Voltage Fluctuation and Flicker EN61000-4-2 Electrostatic Discharge EN61000-4-3 Radiated Susceptibility

EN61000-4-4 Electrical Fast Transient/Burst EN61000-4-5 Surge EN61000-4-6 Conducted Susceptibility

EN61000-4-8 Power Frequency magnetic Field EN61000-4-11 Voltage Dips and Interruption

3. FCC : Class A and CISPR 22

Ordering Code

SPM-3 ☐

	Communication 0：RS485 1：Lon talk

tel./fax: +48 58 322 11 91
e-mail: biall@biall.com.pl
http://www.biall.com.pl

BIALL Sp. z o.o.
ul. Barniewicka 54c
PL 80-299 GDAŃSK