

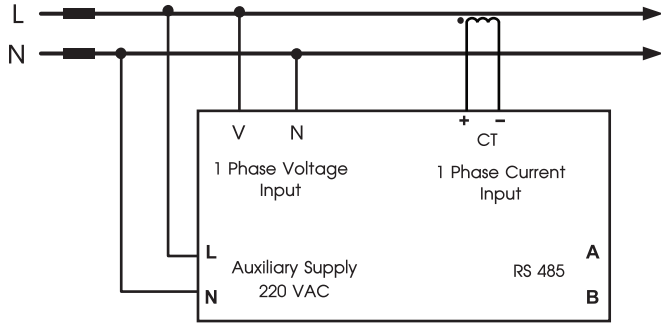
DESCRIPTION

- Voltage, Current and Frequency for single phase measuring
- Clearly vision with 4 digits 2 rows of red LED 7 segments display
- 0-500 Vac and 0 - 5 Aac input direct on instrument terminal
- Able to connect with standard CT secondary 5A.
- Programmable multiplier for CT ratio : 1 to 2000
- Standard size with 96 x 96 x 80 mm. (DIN 1/4)
- Panel mounting
- Interface with computer by RS-485, Modbus Protocol.

TECHNICAL SPECIFICATION

Operating Voltage	230 VAC ±20% 50 Hz.
Power Comsumsion	2.5 VA
CT Ratio	1 To 2000
Range	V : 25-500 (V _{L-N}) A : 20 mA. to 5 A. (Direct) A : 9999 A (with CT)
Accuracy	V : ±1% FS I : ±1% FS
Display	7 Segment 0.56 Inch 4 Digit 2 Row
Working Temperature	-20°C to 60°C
Ambient	35 to 85 % RH
Protection	IP 40
Communication	RS-485
Protocol	MODBUS RTU
Dimension	96 X 96 X 96.5 mm.
Weight	350 G.

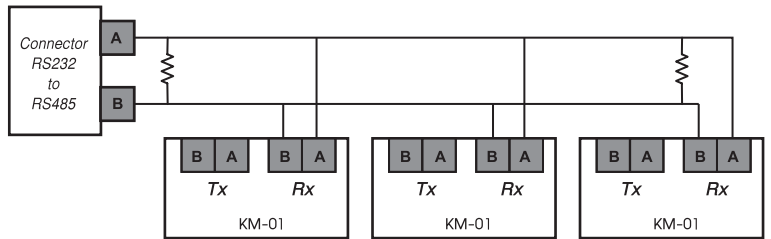
WIRING DIAGRAM



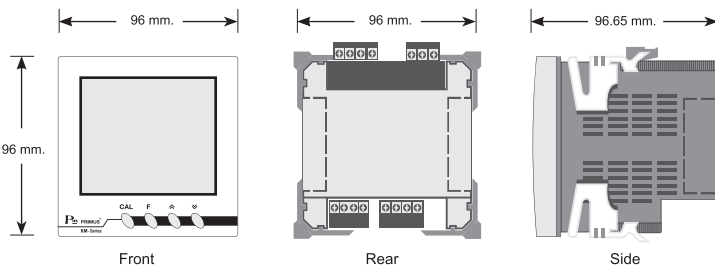
WARNING

- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

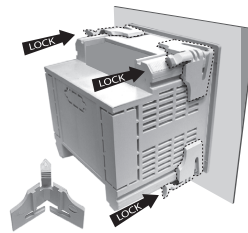
RS 485 CONNECTION TO METER



DIMENSION



INSTALLATION



Pm Primus Co., Ltd.

119 Soi Srimuang Anusorn, Sutthisarnvinichai Rd.,
Dindaeng, Bangkok 10400 Thailand.

Tel : (662)693-7005 ,(662)277-8027 Fax : (662)277-3565
E-Mail : export@primusthai.com , oversea@primusthai.com

PARAMETER SETTING

220.0 V
1.000 A

↑ ↓ Press **F** Key more than 2 Second.

Addr V Modbus Address Setting
10 A 1 -127

↓ Press **F** Key

Ct-r-t V CT Ratio Setting
10 A 1 -2000

COMMUNICATION MODBUS RTU

RTU TRANSMISSION MODE

Function Code	Operate	Broadcast
04	Read Multiple Regiater	NO
08	Loop Back Diagnostic	NO

TABLE OF REGISTER VALUE

Address	Content	Words	Bytes	Format	Access
0	Volts Hi		4	long	R
1	Volts Lo	2	4	long	R
2	Amps Hi		4	long	R
3	Amps Lo	2	4	long	R

CALCULATION FOR DATA

$$\text{Volt} = \text{Volt}_{\text{Reg}} \times 10^{-1} \text{ V}$$

$$\text{Amp} = \text{Amp}_{\text{Reg}} \times 10^{-3} \text{ A}$$

Example

Calculate Value For Setting Parameter

If use CT 1000 / 5 Amp

$$\text{CT Ratio} = (1000/5)$$

$$= 200$$