

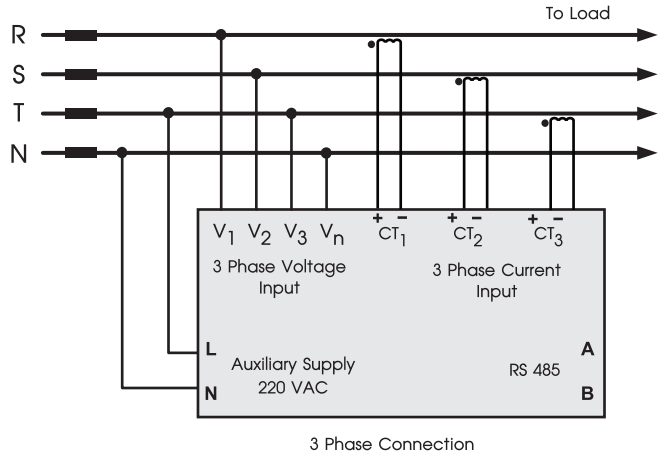
DESCRIPTION

- V, A, Hz and PF True RMS measuring
- Clearly vision 5 rows of LED Display separate.
- Range
 - Current : 0 - 9999 A.
 - Voltage : 0 - 500 Vac
 - Frequency : 45 - 55 Hz
- 3 phase voltage direct input on instrument terminal
- Accuracy $\pm 1\%$ FS
- Programmable the ratio of CT(1-2000)& PT(1-1000)
- Standard size with 96x96x80 mm.
- Protection IP40
- Interface with computer by RS-485, Modbus Protocol.

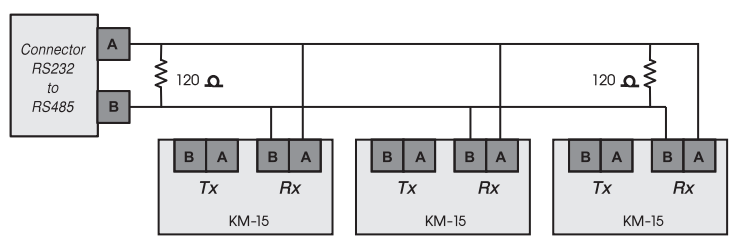
TECHNICAL SPECIFICATION

Operating Voltage	230 VAC $\pm 10\%$ 50 Hz.	
Power Comsumsion	4 VA	
CT Ratio	1 To 2000	
PT Ratio	1 To 1000	
Range	50 mA. to 5.5 Amp (Direct) 10,000 A (with CT) 45 -55 Hz	
Accuracy	1 % ± 1 digit	
Display	7 Segment 0.39 Inch 4 Digit 4 Row	7 Segment 0.39 Inch 3 Digit 4 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.	

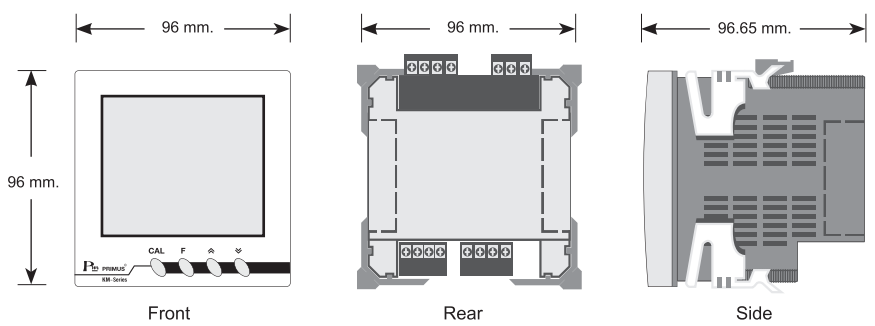
WIRING DIAGRAM



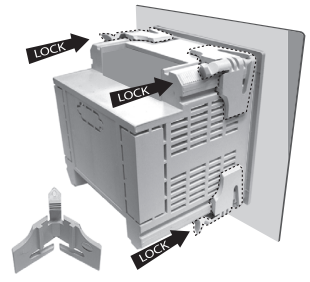
RS 485 CONNECTION TO METER



DIMENSION



INSTALLATION



- 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.

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PARAMETER SETTING



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



⏪ ⏩ PT Ratio Setting 1 -1000

↓ Press **F** Key



⏪ ⏩ CT Ratio Setting 1 -2000

↓ Press **F** Key



⏪ ⏩ Modbus Address Setting 1 -127

↓ Press **F** Key



⏪ ⏩ Baud Rate Setting
2400 bps, 4800 bps, 9600 bp

↓ Press **F** Key



⏪ ⏩ Scan Time Setting 0-3600 Sec.
Exid 10

CALCULATION FOR DATA

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

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

$$\text{Frequency} = \text{Hz}_{\text{Reg}} \times 10^{-1} \text{ Hz}$$

$$\text{Power Factor} = \text{PF}_{\text{Reg}} \times 10^{-3} \text{ PF}$$

Example

Calculate Value For Setting Parameter

If use CT 1000 / 5 Amp
 CT Ratio = (1000/5)
 = 200

COMMUNICATION MODBUS RTU

RTU TRANSMISSION MODE

Function Code	Operate	Broadcast
04	Read Multiple Register	NO
06	Write Single Register	YES
16	Write Multiple Register	YES

TABLE OF REGISTER VALUE

Address	Content	Words	Bytes	Format	Access
0	Phase L1 Volts Hi	2	4	long	R
1	Phase L1 Volts Lo				
2	Phase L2 Volts Hi	2	4	long	R
3	Phase L2 Volts Lo				
4	Phase L3 Volts Hi	2	4	long	R
5	Phase L3 Volts Lo				
6	Phase L1-2 Volts Hi	2	4	long	R
7	Phase L1-2 Volts Lo				
8	Phase L2-3 Volts Hi	2	4	long	R
9	Phase L2-3 Volts Lo				
10	Phase L3-1 Volts Hi	2	4	long	R
11	Phase L3-1 Volts Lo				
12	Phase L1 Amps Hi	2	4	long	R
13	Phase L1 Amps Lo				
14	Phase L2 Amps Hi	2	4	long	R
15	Phase L2 Amps Lo				
16	Phase L3 Amps Hi	2	4	long	R
17	Phase L3 Amps Lo				
18	PF	1	2	int	R
19	Frequency	1	2	int	R
20	Max Phase L1 Volts Hi	2	4	long	R/W
21	Max Phase L1 Volts Lo				
22	Max Phase L2 Volts Hi	2	4	long	R/W
23	Max Phase L2 Volts Lo				
24	Max Phase L3 Volts Hi	2	4	long	R/W
25	Max Phase L3 Volts Lo				
26	Max Phase L1 Amps Hi	2	4	long	R/W
27	Max Phase L1 Amps Lo				
28	Max Phase L2 Amps Hi	2	4	long	R/W
29	Max Phase L2 Amps Lo				
30	Max Phase L3 Amps Hi	2	4	long	R/W
31	Max Phase L3 Amps Lo				
32	PT Ratio	1	2	int	R/W
33	CT Ratio	1	2	int	R/W