

**FEATURES :**

- LCD display screen with backlight
- Programmable brightness for backlight.
- System supported : 1 $\phi$  2 W / 1 $\phi$  3 W / 3 $\phi$  3 W / 3 $\phi$  4 W
- Communication : RS-485 ModBus RTU (Optional)  
Ethernet TCP \_ IP 10/100 BaseT (Optional)
- Output : 4 Sets 4-20mA , 4 Alarm, 2 Pulse.
- Programmable for PT and CT ratio.
- Measures  $\epsilon$ WH and  $\epsilon$ VARH (10-digit display).
- TRMS smpling, 128 section per cycle
- Password - protection for unauthorized setting.
- Memory for 10 years.

**Preliminary Data****FUNCTIONS :****DISPLAY**

- LCD display with backlight.
- Programmable brightness for backlight.
- Suitable system :
- IP2W, IP3W, 3P3W, 3P4W

**PULSE OUTPUT (Optional)**

- 2 Sets Pulse output
- Set for  $\epsilon$ WH or  $\epsilon$ VARH
- Optical coupler type.
- Applied Voltage: DC 5~30V (5~100mA)

**HARMONIC (Optional)**

- Voltage / Current / Odd harmonic / Total harmonic.
- Voltage and current harmonic variation rate.
- 31times of harmonic analysis
- Display 15 times of odd harmonic.

**COMMUNICATION (Optional)****RS- 485 Modbus RTU**

- Address : 1-255
- Baudrate : 1200 ~ 38400
- Optoelectronic isolating.

**PULSE OUTPUT (Optional)**

- Function : ON / OFF and DELAY TIME
- Set HI or LO for action point.
- Set for 3V, 3A, W, Var, PF, Hz ... 10 signals
- Panel has relay state indicator

**HARMONIC (Optional)**

- Demand control & Management
- Max. Demand Time / Date
- Target / Contract / Estimate / Remaining Demand.
- 4 Relays For Controlling Energy.

**Ethernet TCP \_ IP**

- 10 / 100 Base T

**ANALOGUE OUTPUT (Optional)**

- 4 Sets of DC 4 ~ 20 m A output
- Correspond to :3V, 3A, W, Var, PF, Hz ... 10 Signals.
- Output  $\epsilon$  500  $\Omega$

**PERIOD CHARGE (Optional)**

- Programmable for 3 periods:
- Peak / Half-peak / Off - Peak
- Set each hour as Peak, Half-peak or off-peak according to your requirements, electricity consumption of different periods will be accumulated respectively.

**SPECIFICATIONS :**

**Display** :- LCD display with backlight

**Response time** :-—1 sec

**Voltage range** :- Input 55 ~ 440V (L-L) (Max : 480V L-L)  
Input 55 ~ 600V (L-L) (Max: 700V L-L)

**Current range** :- Input 5A, suitable for 2mA ~ 6A  
Input 1A, suitable for 2mA ~ 1.5A.

**Input burden** :- Voltage = 0.25VA, Current = 0.2VA

**Input frequency** :- 45 ~ 70Hz

**Communication** :- RS- 485 Modbus RTU

**Baudrate** :- 1200, 2400, 4800, 9600, 19200, 384000

**Ethernet** :- TCP / IP 100 Base T

**Output** :- 4 Alarm setting

4 Sets DC ~ 4-20mA (output > 500 $\Omega$ )

2 Sets of pulse

**Harmonic** :- KM-PM-100H 15 times for voltage and current

**Dielectric strength** :- AC 2.8KV/ Min, between Input / Power / Case,

**Power Supply** :- AC 85~265V / DC 100 ~300V 50 / 60Hz

**Consumed Power** :- <3W

**IP Code**:- Panel :IP64 ; Case : IP 20

**Operating Condition** :- -20°C ~ + 65°C 20 ~ 90% RH Non-Condense

**Storage Condition** :- -40°C ~ +75°C 20 ~ 90% RH Non-Condense

**Dimension** :- 100 (W) x 100 (H) x 96(L) mm

**Mounting** :- Panel Flush Mounting

**Case Material** :- ABS plastic /Self-Extinguishing, Comply with UL 94 Class V-0

MODEL SELECT KM-PM-100

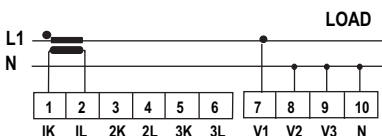
Model	Input Voltage		Input Current		Out Put Signal		Alarm Setting		Aux. Power	
<b>KM-PM-100</b> (STANDARD)	1	55-40V (L-L)	1	1A	1	4 Sets of DC 4-20mA	1	4 Alarm setting	3	DC 22 ~72V
<b>KM-PM-100 H</b> (HARMONIC)	3	55-600V (L-L)	2	5A	2	2 Sets of Pulse	0	None	6	AC/DC85 ~ 265V
<b>KM-PM-100 D</b> (DEMAND)	Y	Others	Y	Others	3	DC 4-20mA and Pulse	Y	Other		
<b>KM-PM-100 R</b> (PERIOD CHARGE)					4	RS-485 MODBUS RTU				
					5	Ethernet TCP_IP			Y	Others
					0	None				
					Y	Other				

ACCURACY & DISPLAY RANGE

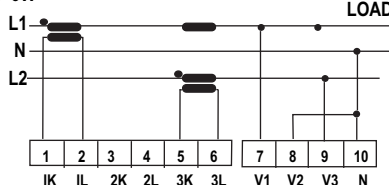
Signal	Accuracy	Range	Unit	Signal	Accuracy	Range	Unit
<b>V</b>	0.2% FS	0-9999	V/KV	<b>HZ</b>	0.2 FS	45-70	HZ
<b>A</b>	0.2% FS	0-9999	A	<b>PF</b>	0.5% FS	±0.500	COS
<b>W</b>	0.5% FS	0-9999	KW / MW	<b>W</b>	0.5% FS	0-9999	KVar / MVar
<b>WH</b>	0.5% FS	1999999999	KWH / MWH	<b>WH</b>	0.5% FS	1999999999	KVarH / MVarH

CONNECTION DIAGRAM FOR INPUT VOLTAGE & CURRENT

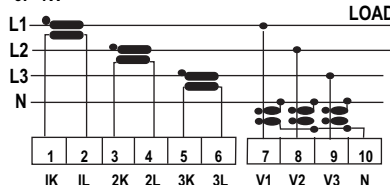
1P 2W



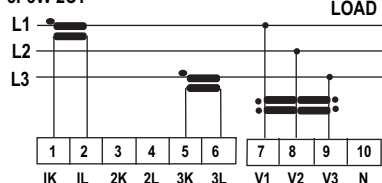
1P 3W



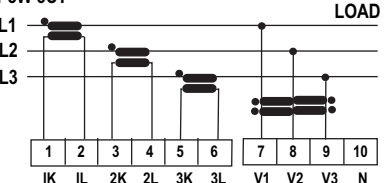
3P 4W



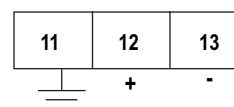
3P3W 2CT



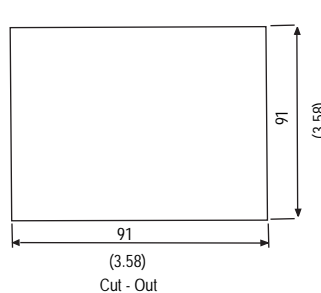
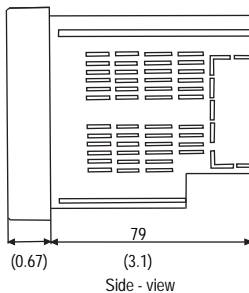
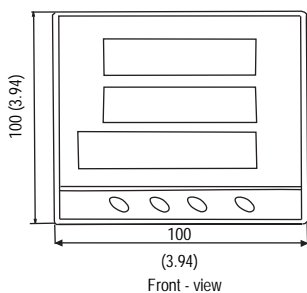
3P3W 3CT



POWER



DIMENSION mm (inch)



All Specifications are subject to change without prior notice



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