



DIGITAL MULTIFUNCTION TRMS POWER METER

An ISO 9001:2008 Company

Model : KM-PM-100

FEATURES :

- LCD display screen with backlight
- Programmable brightness for backlight.
- System supported : 1 2 W / 1 3 W / 3 3 W / 3 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 WH and 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 WH or 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 500

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)
- 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-O

All Specifications are subject to change without prior notice

MODEL SELECT KM-PM-100

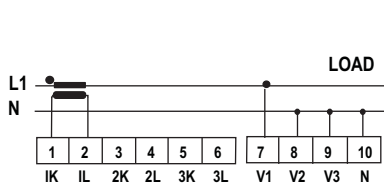
Model	Input Voltage		Input Current		Out Put Signal		Alarm Setting		Aux. Power	
KM-PM-100 (STANDARD)	1	55-40V (L-L)	1	1A	1	4 Sets of DC 4~20mA	1	4 Alarm setting	3	DC 22 ~72V
KM-PM-100 H (HARMONIC)	3	55-600V (L-L)	2	5A	2	2 Sets of Pulse	0	None	6	AC/DC85 ~ 265V
KM-PM-100 D (DEMAND)	Y	Others	Y	Others	3	DC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

ACCURACY & DISPLAY RANGE

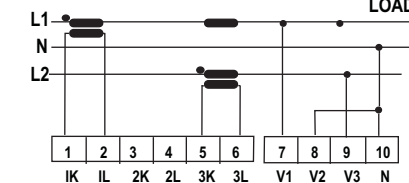
Signal	Accuracy	Range	Unit	Signal	Accuracy	Range	Unit
V	0.2% FS	0-9999	V/KV	HZ	0.2 FS	45~70	HZ
A	0.2% FS	0-9999	A	PF	0.5% FS	±0.500	COS
W	0.5% FS	0-9999	KW / MW	W	0.5% FS	0-9999	KVar / MVar
WH	0.5% FS	1999999999	KWH / MWH	WH	0.5% FS	1999999999	KVarH / MVarH

CONNECTION DIAGRAM FOR INPUT VOLTAGE & CURRENT

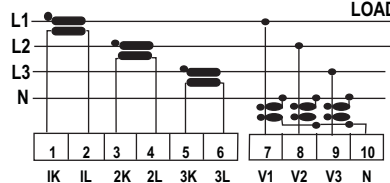
1P 2W



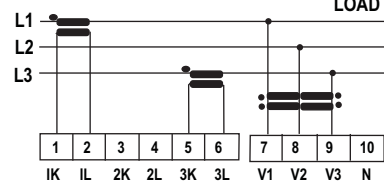
1P 3W



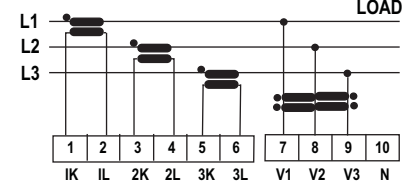
3P 4W



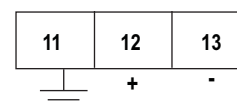
3P3W 2CT



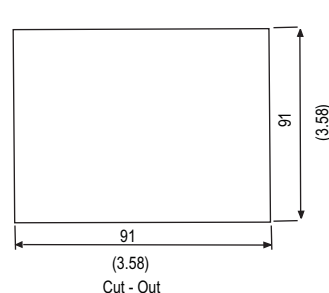
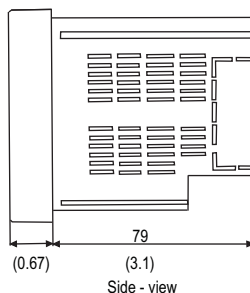
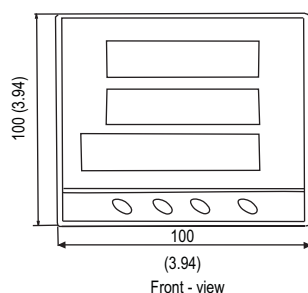
3P3W 3CT



POWER



DIMENSION mm (inch)



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