

FEATURES

- LCD display screen with backlight.
- Programmable brightness for backlight.
- System supported: 1 ϕ 2W / 1 ϕ 3W / 3 ϕ 3W / 3 ϕ 4W
- 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 \pm WH and \pm VARH (10-digit display).
- TRMS smpling,128 sections per cycle
- Password-protection for unauthorized setting.
- Memory for 10 years.



FUNCTION

<p>DSPLAY</p> <p>LCD display with backlight. Programmable brightness for backlight. Suitable system: 1P2W 、 1P3W 、 3P3W 、 3P4W</p>	<p>PULSE OUTPUT (Optional)</p> <p>2 Sets Pulse output Set for \pmWH or \pmVARH Optical coupler type. Applied Voltage: DC 5~30V (5~100mA)</p>	<p>HARMONIC (Optional)</p> <p>Voltage / Current / odd harmonic / total harmonic. Voltage and Current harmonic variation rate. 31 times of harmonic analysis Display 15 times of odd harmonic.</p>
<p>COMMUNICATION (Optional)</p> <p>RS-485 Modbus RTU Address : 1-255 Baudrate : 1200~38400 Optoelectronic isolating.</p> <p>Ethernet TCP_IP 10/100 BaseT</p>	<p>ALARM (Optional)</p> <p>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.</p>	<p>DEMAND CONTROL (Optional)</p> <p>Demand Control & Management Max.Demand Time/Date Target / Contract / Estimate / Remaining Demand. 4 Relays For Controlling Energy.</p>
	<p>ANALOGUE OUTPUT (Optional)</p> <p>4 Sets of DC 4~20mA output Correspond to :3V 、 3A 、 W 、 Var 、 PF 、 Hz...10 signals. Output \geq 500 Ω</p>	<p>PERIOD CHARGE (Optional)</p> <p>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.</p>

MODEL/FUNCTION REFERENCE

● means with the function.

FUNCTION	PARAMETER	STANDARD	HARMONIC	DEMAND	PERIOD CHARGE
		PM100	PM100H	PM100D	PM100R
LINE V	1-2V、2-3V、3-1V、avg.V (L-L)				
PHASE V	1V、2V、3V (L-N)				
CURRENT	1A、2A、3A、avg.A				
VA	1VA、2VA、3VA、ΣVA				
WATT	1W、2W、3W、ΣW				
VAR	1Var、2Var、3Var、ΣVar	●	●	●	●
POWER FACTOR	1PF、ΣPF、ΣPF、ΣPF				
FREQUENCY	Frequency (HZ)				
WATTHOUR	WH (BI-DIRECTION) Receive / Send				
VARHOUR	VarH (BI-DIRECTION) LAG / LEAD				
ZERO PHASE V ZERO PHASE A	Zero phase voltage Zero phase current	(Optional)			
3 phase unbalanced V 3 phase unbalanced A	V-unbl % A-unbl %	(Optional)			
PORT 1	RS 485 MODBUS RTU	(Optional)			
PORT 2	RS 232 MODBUS RTU	(Optional)			
PORT 3	Ethernet TCP_IP	(Optional)			
MAX. Value Record DATE / TIME	V1、V2、V3 (MAX) A1、A2、A3 (MAX)	(Optional)			
HARMONIC ANALYSIS	V,A total harmonic, variation rate up to 31 times. Display 15 times of odd harmonic.		●	●	
CLOCK	Display: week/year/month/day/hr/min/sec			●	●
DEMAND CONTROL	Max、Target、Present、Remaining Demand			●	
PERIOD CHARGE	Peak / Half-peak / Off-peak				●
PULSE OUTPUT	DO1(±WH, ±VarH)、DO2(±WH, ±VarH)	(Optional)			
4 Sets of DC 4-20mA	AO1、AO2、AO3、AO4 (Set up to 10 signals)				
Relay Alarm	RY1、RY2、RY3、RY4 (Set up to 10 signals)				

MODEL SELECT

PM100 - [] - [] - [] - [] - []

MODEL	INPUT VOLTAGE		INPUT CURRENT		Output Signal		Alarm Setting		Aux. Power	
PM100 (STANDARD)	1	55-440V(L-L)	1	1A	1	4 Sets of DC 4~20mA	1	4 Alarm Setting	3	DC 22~72V
PM100H (HARMONIC)	3	55-600V(L-L)	2	5A	2	2 Sets of Pulse	0	None	6	AC/DC85~265V
PM100D (DEMAND)	Y	Other	Y	Other	3	DC 4~20mA and PULSE	Y	Other		
PM100R (PERIOD CHARGE)					4	RS-485 MODBUS RTU				
					5	Ethernet TCP_IP				
					0	None			Y	Other
					Y	Other				

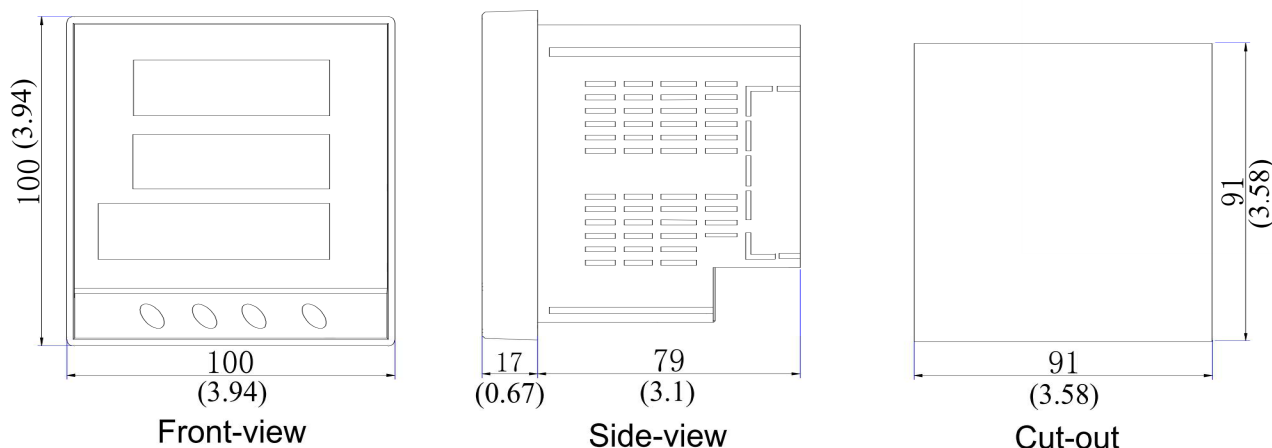
ACCURACY & DISPLAY RANGE

SIGNAL	ACCURACY	RANGE	UNIT	SIGNAL	ACCURACY	RANGE	UNIT
V	0.2%FS	0-9999	V/KV	HZ	0.02 HZ	45~70	HZ
A	0.2%FS	0-9999	A	PF	0.5%FS	±0.500	COSθ
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

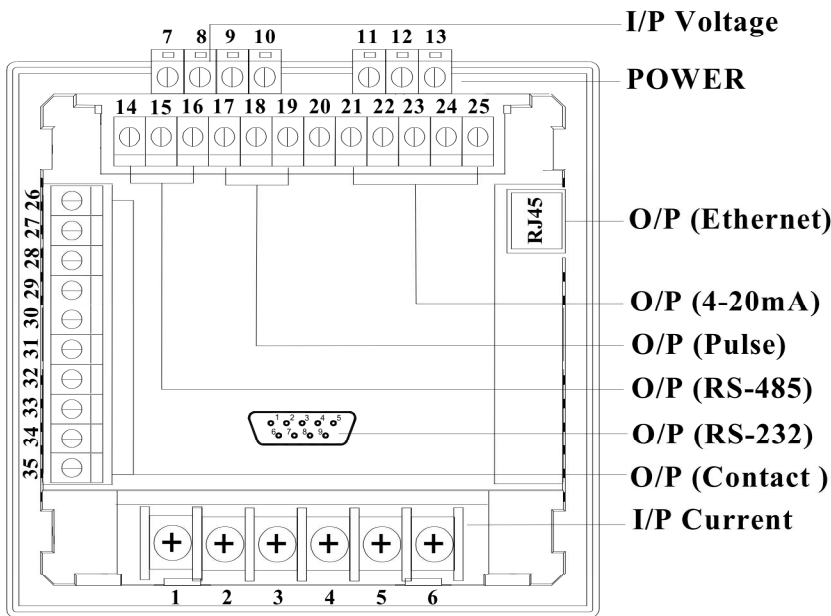
SPECIFICATIONS

Display	: LCD display with backlight	Harmonic	: Model: PM100H 15 times for Voltage and Current
Response time	: ≤1 sec	Dielectric Strength	: AC 2.8KV / Min, between Input/Power/Case,
Voltage range	: Input 55~440V(L-L) (Max: 480V L-L) Input 55~600V(L-L) (Max: 700V L-L)	Power supply	: AC 85~265V / DC 100~300V 50 / 60Hz
Current range	: Input5A , suitable for 2mA~6A Input1A , suitable for 2mA~1.5A.	Consumed power	: <3W
Input burden	: Voltage=0.25VA,Current=0.2VA	IP code	: Panel:IP64 ; Case:IP 30
Input frequency	: 45 ~ 70HZ	Operating Condition	: -20℃ ~ +65℃ 20 ~ 90% RH Non-Condense
Communication	: RS-485 Modbus RTU	Storage Condition	: -40℃ ~ +75℃ 20 ~ 90% RH Non-Condense.
Baudrate	: 1200、2400、4800、9600、19200、38400	Dimension	: 100(W) × 100(H) × 96(L) mm
Ethernet	: TCP/IP 10/100 BaseT	Mounting	: Panel Flush Mounting
Output	: 4 Alarm setting : 4 sets DC 4-20mA (Output > 500Ω) : 2 sets of pulse	Case Material	: ABS Plastic/Self-Extinguishing , Comply with UL 94 Class V-O

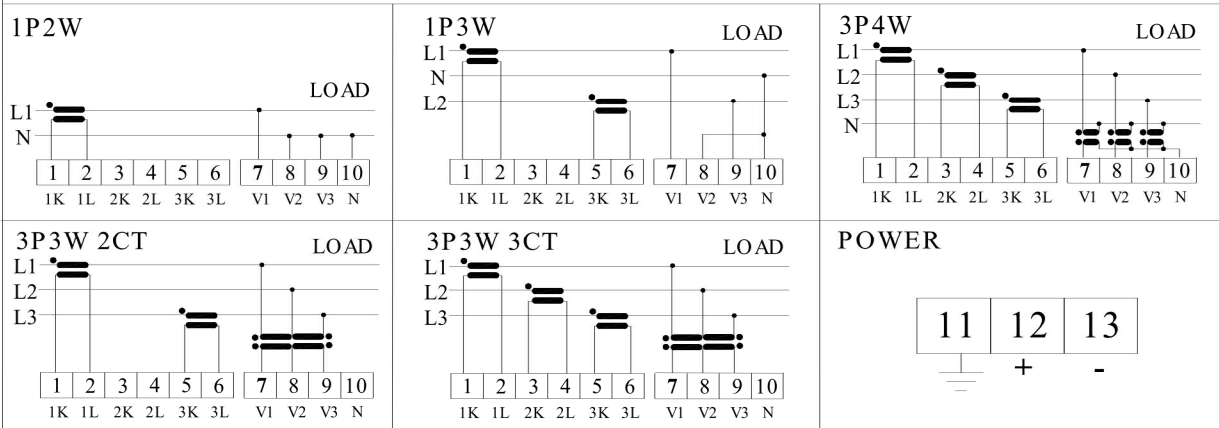
DIMENSION mm (inch)



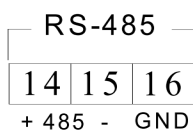
CONNECTION DIAGRAM



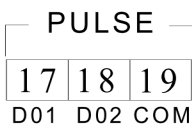
INPUT VOLTAGE & CURRENT



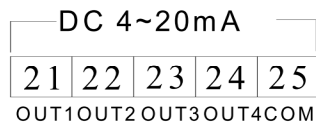
RS-485



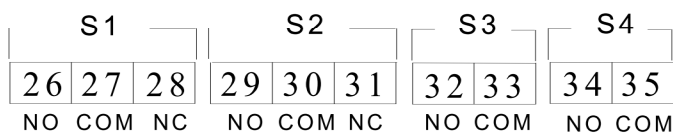
PULSE



ANALOG O/P



RELAY



RS 232

