

# 4 1/2 DIGITAL MICROPROCESS Watt / Var / Power Factor / Phase Angle METER with 1~2 ALARMS / ANALOG OUTPUT / RS-485

# AM5P

## FEATURES

- Accuracy:  $\pm 0.25\%$  F.S.  $\pm 1$  digit
- Measuring AC Watt / Var / Power Factor / Phase Angle
- High brightness 0.8" LED display range: -19999~99999; decimal point selectable
- Display range programmable
- 1~2 Alarms (Hi or Lo) programmable / Analog output (15 bit resolution) / RS-485 communication optional (The above options can exist together)
- High stability, non-flammable case (PC), high safety
- CE approval



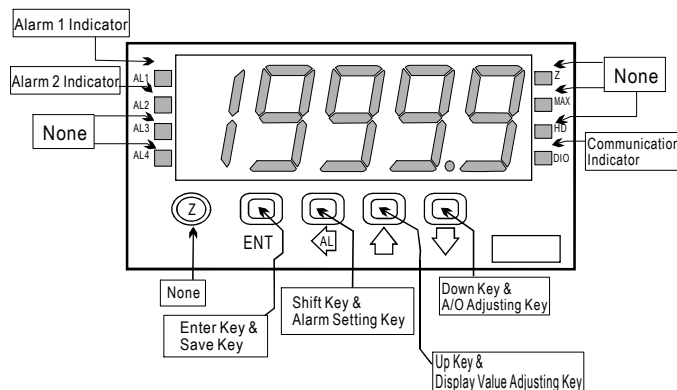
## ORDER INFORMATION: AM5P - [Code 1] - [Code 2] [Code 3] [Code 4] [Code 5] - [Code 6] - [Code 7] [Code 8] [Code 9]

Code 1	Input Type	Code 2	Connection	Code 3	Input Volt	Code 4	Input Amp	Code 5	Frequency	Code 6	Aux. Power	Code 7	Alarm Output	Code 8	Analog Output	Code 9	RS-485
W	Watt	1	1 $\phi$ 2W	1	0~120V	1	0~1A	4	400Hz	A	AC/DC 100~240V	N	None	N	None	N	None
V	Var	2	1 $\phi$ 3W	2	0~240V	2	0~5A	5	50Hz	B	DC 12V	R1	1 Relay	A	4~20mA	Y	Yes
C	Power Factor	3	3 $\phi$ 3W	3	0~480V	O	Option	6	60Hz	C	DC 24V	R2	2 Relays	V	0~10V		
A	Phase Angle	4	3 $\phi$ 4W	O	Option			O	Option	D	DC 30V~90V	O1	1 Open Collect	O	Option		
												O2	2 Open Collect				

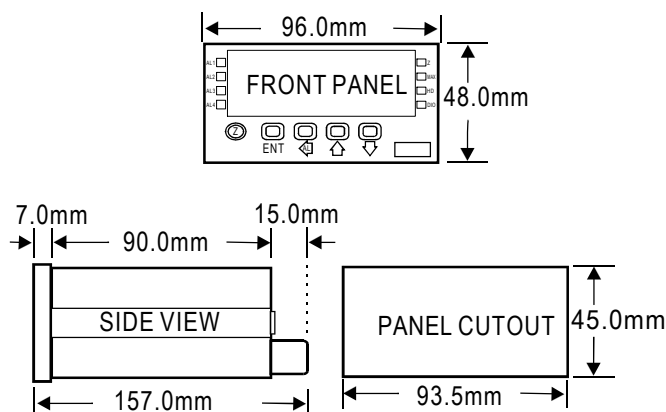
## SPECIFICATION

- ◆ Accuracy:  $\pm 0.25\%$  F.S.  $\pm 1$  digit
- ◆ Display Screen: High brightness red LED; 20.3mm(0.8")
- ◆ Sampling Time: 16 cycles / sec
- ◆ Display Range: -19999~19999
- ◆ Zero Adjustment: -19999~19999
- ◆ Over Range Indication: doFL / ioFL or -doFL / -ioFL
- ◆ Polarity Indication: Automatic with "-" indication
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: " $\geq$  (Hi) on" or "< (Lo) on"
- ◆ Alarm Run Delay Time: 0~99 sec
- ◆ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ◆ Analog Output Resolution: 15 bit
- ◆ Output Response Time: <250 msec (0~90%)
- ◆ Output Capability: Voltage Output: <20mA  
Current Output: <10V
- ◆ Communication: RS-485 Modbus RTU mode
- ◆ Baud Rate: 19200 / 9600 / 4800 / 2400 bps
- ◆ Temperature Coefficient: 100ppm /  $^{\circ}$ C (0~60 $^{\circ}$ C)
- ◆ Operating Temperature: 0~60 $^{\circ}$ C
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}$ C
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; DC 12 / 24 / 30~90V
- ◆ Power Consumption: 8.5VA (all functions output)
- ◆ Surge Test: 1.5kVac / 1min (Input / Power)
- ◆ Input Impedence: Voltage:  $>2V$  for 20k $\Omega$  / V;  $\leq 2V$  for  $>200M\Omega$   
Current:  $\geq 0.2A$  at 100mV;  $<0.2A$  at 1V

## FRONT PANEL & KEY FUNCTIONS

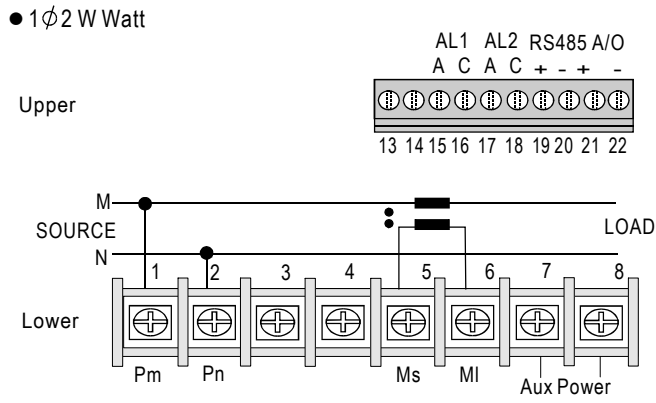


## DIMENSION

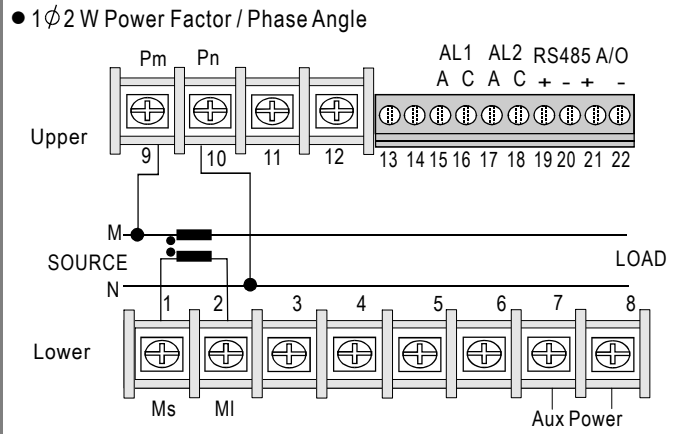


# WIRING CONNECTION

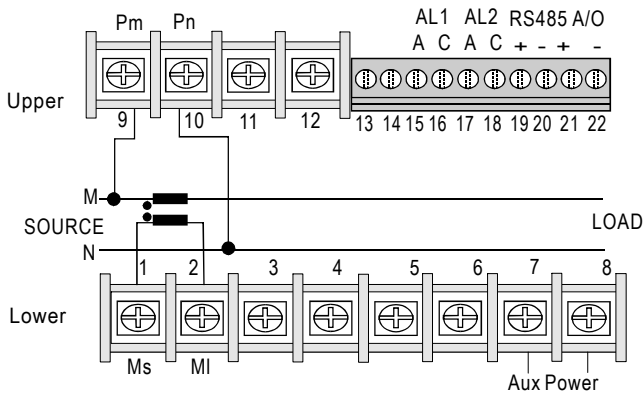
## Watt / Var



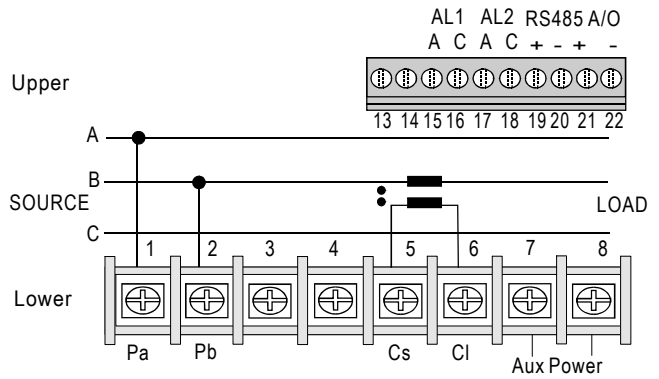
## Power Factor / Phase Angle



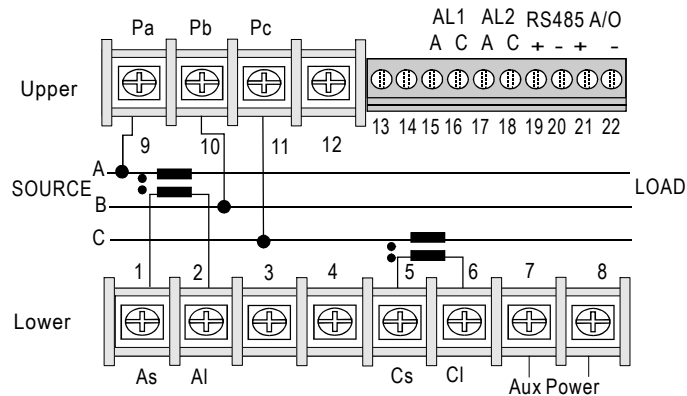
## 1 $\phi$ 2 W Var



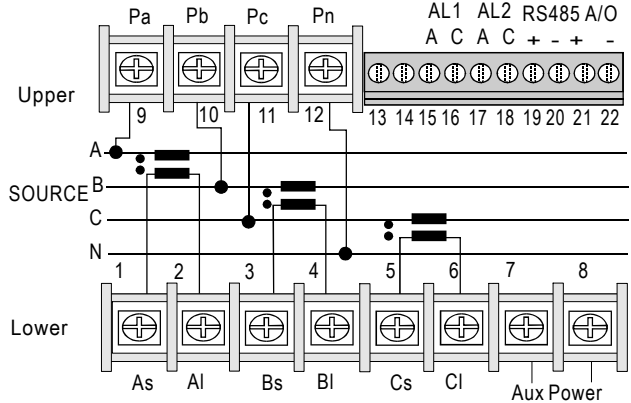
## 3 $\phi$ 3 W (1 $\phi$ 3W) Power Factor / Phase Angle



## 3 $\phi$ 3 W (1 $\phi$ 3W) Watt / Var



## 3 $\phi$ 4 W Power Factor / Phase Angle



## 3 $\phi$ 4 W Watt / Var

