

10-Digit, Microprocessor-based Panel Meter

(W,WH, VAR,VARH with alarms, Analogue output & RS485)

AM5P-F

FEATURES

- Accuracy: $\pm 0.25\%$
- Measuring AC Watt / Var / Watt-Hour / Var-Hour
- High brightness 0.4" LED; Watt (Var) display range: 0~19999; decimal point selectable
- Time parameters programmable (1 or 60 or 3600 sec)
- Reset for Watt-Hour (Var-Hour) by external control input
- Individual alarm setting for Watt (Var) & Watt-Hour (Var-Hour)
- 2 Alarms for Watt (Var) / 1 alarm for Watt-Hour (Var-Hour) / Pulse Output / 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



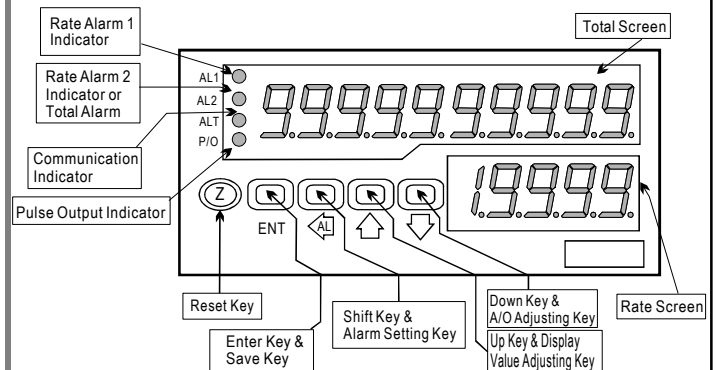
ORDER INFORMATION: AM5P-F - Code 1 - Code 2 - Code 3 - Code 4 - Code 5 - Code 6 - Code 7 - Code 8 - Code 9

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 / Watt-Hr	1	1 ϕ 2W	1	0~120V	1	0~1A	4	400Hz	A	AC/DC 100~240V	N	None	N	None	N	None
V	Var / Var-Hr	2	1 ϕ 3W	2	0~240V	2	0~5A	5	50Hz	B	DC 12V	R1	Rate Alarm x 1	A	4~20mA	Y	Yes
		3	3 ϕ 3W	3	0~480V	O	Option	6	60Hz	C	DC 24V	R2	Rate Alarm x 2	V	0~10V		
		4	3 ϕ 4W	O	Option			O	Option	D	DC 30~90V	RT	Rate & Total Alarm x 1	O	Option		
												T1	Total Alarm x 1				
												RP	Rate Alarm x 1 & 1P / Count				
												TP	Total Alarm x 1 & 1P / Count				

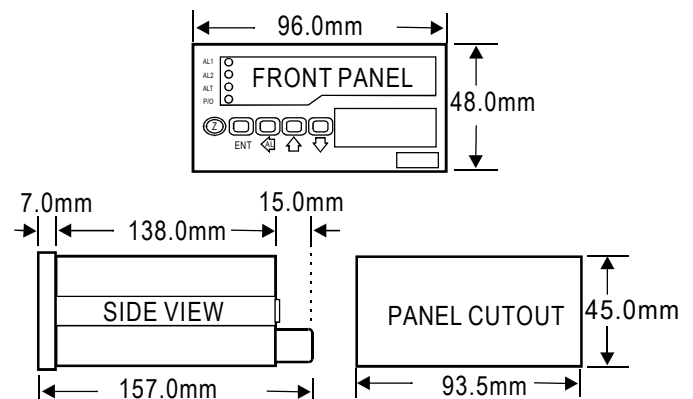
SPECIFICATION

- ◆ Accuracy: $\pm 0.25\%$ F.S. ± 1 digit
- ◆ Display Screen: High brightness red LED; 10.16mm(0.4")
- ◆ Sampling Time: 16 cycles / sec
- ◆ Display Range: Rate: 0~19999
Total: 0~9999999999
- ◆ Zero Adjustment: Rate: 0~19999
- ◆ Over Range Indication: doFL / ioFL or -doFL / -ioFL
- ◆ Polarity Indication: Automatic with "-" indication
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: Rate: " \geq (Hi) on" or "< (Lo) on"
Total: " \geq (Hi) 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 Ω / V; $\leq 2V$ for $>200M\Omega$
Current: $\geq 0.2A$ at 100mV; $<0.2A$ at 1V
- ◆ Safety: IEC 61000-4-2
IEC 61000-4-3
IEC 61000-4-4
IEC 61000-4-5
IEC 61000-4-6
IEC 61000-4-8
IEC 61000-4-11

FRONT PANEL & KEY FUNCTIONS



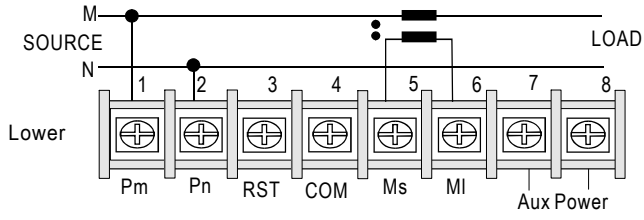
DIMENSION



WIRING CONNECTION

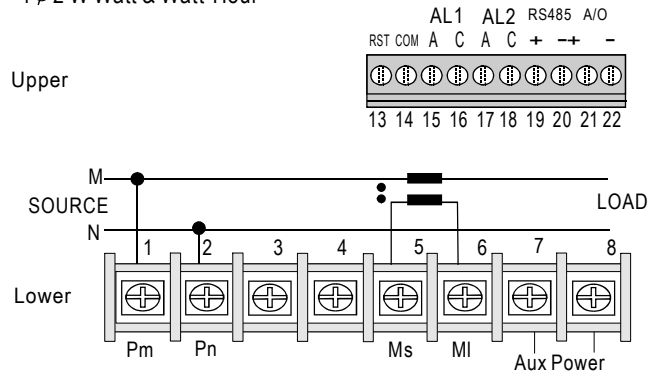
Display Function Only

● 1 ϕ 2 W Watt & Watt-Hour

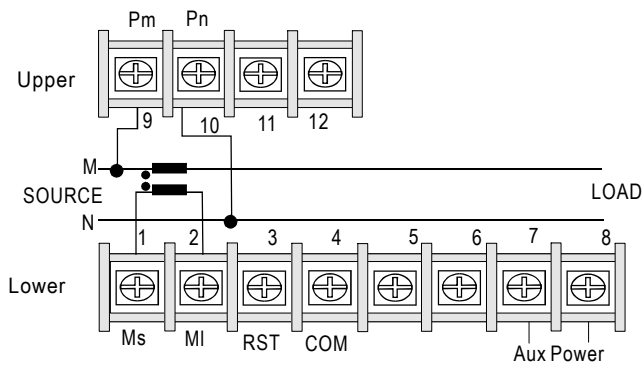


Alarms / Analog / RS-485 Output

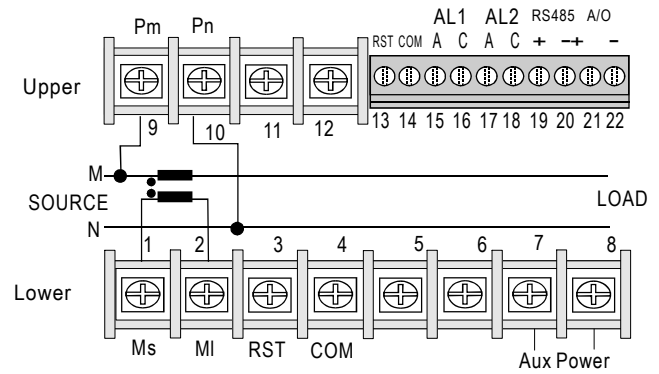
● 1 ϕ 2 W Watt & Watt-Hour



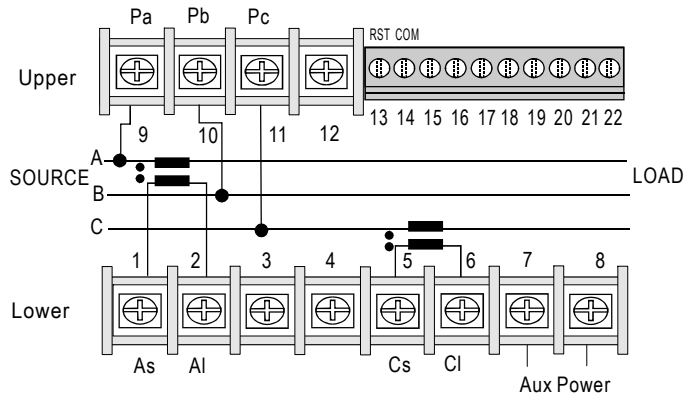
● 1 ϕ 2 W Var & Var-Hour



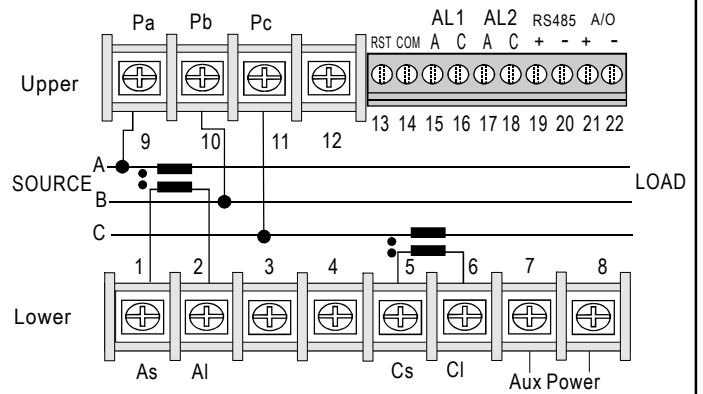
● 1 ϕ 2 W Var & Var-Hour



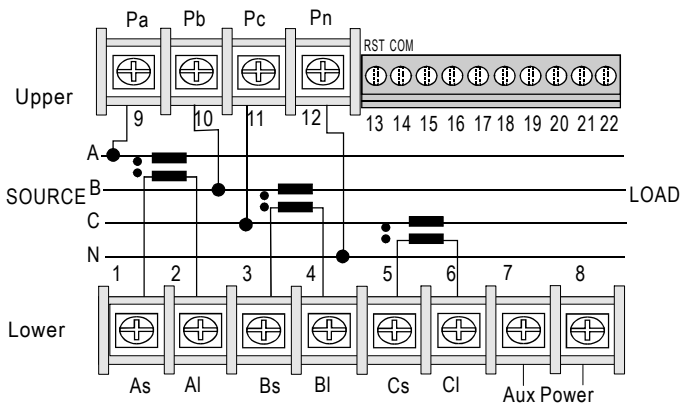
● 3 ϕ 3 W (1 ϕ 3W) Watt & Watt-Hour (Var & Var-Hour)



● 3 ϕ 3 W (1 ϕ 3W) Watt & Watt-Hour (Var & Var-Hour)



● 3 ϕ 4 W Watt & Watt-Hour (Var & Var-Hour)



● 3 ϕ 4 W Watt & Watt-Hour (Var & Var-Hour)

