

APM244-5 Process Panel Meter

■ DESCRIPTION

- 5 Digit Red LED high-brightness Display.
- Input any DC voltage and current (Sink & Source).
- 1 external control input can be programmed to be Relative PV (Tare) / PV Hold / Maximum or Minimum Hold / DI (remote monitoring)
- Standard 24Vdc supply.
- Front Panel mount as standard with optional Din rail / Surface mount.



■ TECHNICAL SPECIFICATION

Input

Input Range	Input Impedance	Input Range	Input Impedance
Voltage 0 ~ 10 V	≥ 1M ohm	Current 0(4)~20 mA	250 ohm

➤ Any Input in the range of 0~10V or 0~20mA.

Calibration:	Digital calibration by front key
A/D converter:	16 bits resolution
Accuracy:	≤± 0.04% of FS ± 1C;
Sampling rate:	15 cycles/sec
Response time:	≤100 msec.(when the AvG = "1") in standard
Input type:	0~10V / 0~5V / 1~5V / 0~10mA / 0~20mA / 4~20mA Input range High and Low programmable Ai.Hi: Settable range: 0.00~100.00% of input range Ai.Lo: Settable range: 0.00~100.00% of input range

Display & Functions

LED:	Numeric: 5 digits, 0.8"(20.0mm)H red high-brightness LED E.C.I. function indication: 3 square green LED Max/Mini Hold indication: 2 square orange LED
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Display range:	-19999~29999;
Scaling function:	Lo.SC: Low Scale; Settable range: -19999~+29999 Hi.SC: High Scale; Settable range: -19999~+29999
Decimal point:	Programmable from 0 / 0.0 / 0.00 / 0.000 / 0.0000
Over range indication:	ovFL, when input is over 120% of input range Hi
Under range indication:	-ovFL, when input is under -20% of input range Lo
Max / Mini recording:	Maximum and Minimum value storage during power on.
Display functions:	PV / Max(Mini) Hold / RS 485 Programmable
Front key functions:	Up and down key can be set to be a function as ECI.
Low cut:	Settable range: -19999~29999 counts
Digital fine adjust:	Pv.Zro: Settable range: -19999~+29999 Pv.SPn: Settable range: -19999~+29999

Reading Stable Function

Average:	Settable range: 1~99 times
Moving average:	Settable range: None / 1~10 times
Digital filter:	Settable range: None / 1~99 times

External Control Inputs(ECI)

Input mode:	1 ECI points, Contact or open collect input, Level trigger
Functions:	Relative PV(Tare) / PV Hold / Reset for Max or Mini. Hold / DI
Debouncing time:	Settable range 5 ~255 x (8m seconds)

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Electrical Safety

Dielectric strength: AC 1.5 KV for 1 min, Between Power / Input / Output / Case
Insulation resistance: $\geq 100M$ ohm at 500Vdc, Between Power / Input / Output
Isolation: Between Power / Input / Relay / E.C.I./ Analogue or RS485
EMC: EN 55011:2002; EN 61326:2003
Safety(LVD): EN 61010-1:2001

Environmental

Operating temp.: 0~60 °C
Operating humi.(%RH): 20~95 %RH, Non-condensing
Temp. coefficient: ≤ 100 PPM/°C
Storage temperature: -10~70 °C
Enclosure: Front panel: IEC 549 (IP54); Housing: IP20

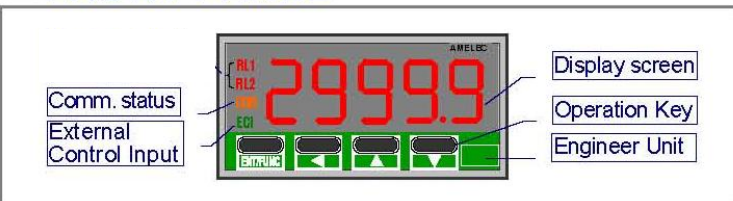
Mechanical

Dimensions: 48mm(W) x 24mm(H) x 102mm(D)
Panel cutout: 45mm(W) x 22.5mm(H)
Case materiel: ABS fire-protection (UL 94V-0)
Mounting: Panel flush mounting
Terminal block: Plastic NYLON 66 (UL 94V-0)
5A 300Vac, M2.0, 0.5~1.3mm²(22~16AWG)
Weight: About 110g

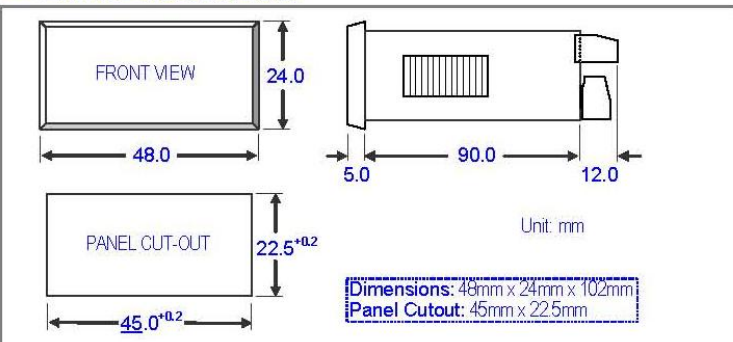
Power

Power supply: DC 20~56V
Excitation supply: DC 24V, 30mA maximum in standard
Power consumption: 4.5VA max.
Back up memory: By EEPROM

FRONT PANEL

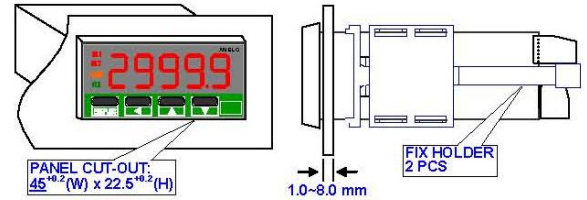


DIMENSIONS

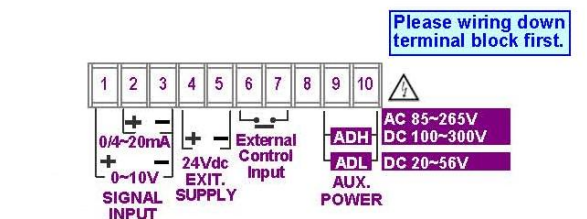


INSTALLATION

The meter should be installed in a location that dose not exceed the maximum operating temperature and provides good air circulation.



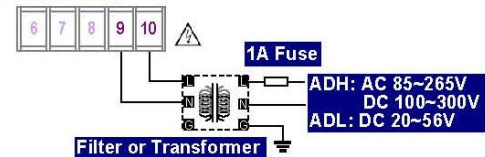
CONNECTION DIAGRAM



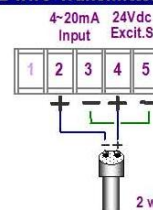
Terminal blocks:
5A 300Vac,
0.5~1.3mm²(22~16AWG)

Please check the voltage of power supplied first, and then connect to the specified terminals. It is recommended that power supplied to the meter be protected by a fuse or circuit breaker.

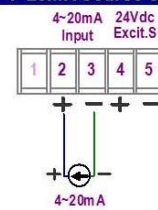
Power Supply



2 wire Transmitter connection



4~20mA source connection



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