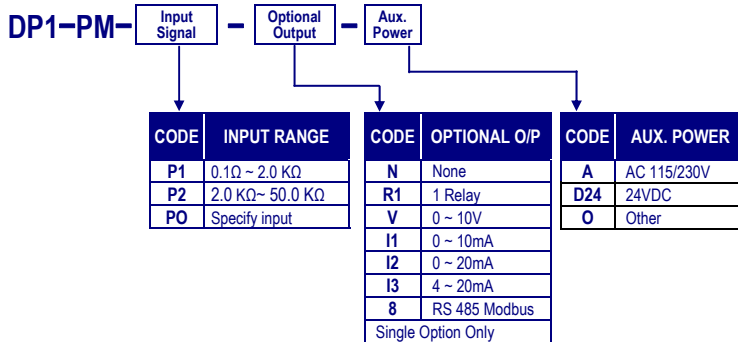


► FEATURES

- Measures & Displays resistance from 0.1~2.0/50.0K Ω (3 wire pot)
- Accuracy: $\pm 0.04\%$; Display range: -19999~29999
- Easily programmable via the front panel
- **Field calibration capability**
- **1 Relay, 1 Analogue output or RS 485 communication**
- CE Approved



► ORDER CODING



► SPECIFICATION

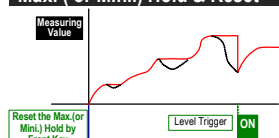
Measuring Range	Input Impedance	Excitation Voltage
0.1 Ω ~ 1.0K Ω (3 wired)	$\geq 1M$ ohm	About 0.2V
1.0 K Ω ~ 50.0K Ω (3)	$\geq 1M$ ohm	About 0.8V

Calibration: System calibration by front key
Field calibration function: Calibration with field signal input high & low, and field calibration reset without affecting factory calibration
Accuracy: $\leq \pm 0.04\%$ of FS $\pm 1C$;
Response time: ≤ 100 msec.(when the AvG = "1")
Operating Programming: 4 keys for Enter(Function) / Shift(Escape) / Up / Down
 Up key: increases number / back to previous function
 Down key: decreases number / go to next function
 Shift/Escape key: moves the flashing digit position / Return to upper level
 Enter/Fun key: enter the parameters set or Selects programming mode
Programmable key: Down key can be programmed to be Present Value (PV), PV Hold, / Max-Min value reset/ or Relay reset if alarm is configured as latching
Security : 4 digit password
Lock: 3 function group lock level for None/User Level/ Engineer Level / All(Engineer Level & User Level)

Display functions

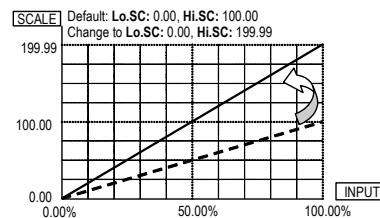
LED: Measuring value: 0.56" red high-brightness LED
 Relay output indication: square red LED
 RS 485 communication: square orange LED
 Max. / Mini. Hold / PV Hold / Rel. PV : square red LED
Low Cut function: Low.cut :Settable range:-19999~+19999 counts
Average function: AvG :Settable range: 1~99 times
Digital Filter function: D.Filt : Settable range: 0(None)/1~99 times
Over range indication: ovFL, when input is over 120% of input range Hi
Under range indication: -ovFL, when input is under -120% of input range Lo
Display functions: Present Value / Maximum Hold / Minimum Hold / Write to display by RS485 command

Max. (or Mini.) Hold & Reset



Scaling

Scaling function: Hi.SC(High scale): -19999~29999
 Lo.SC(Low scale): -19999~29999

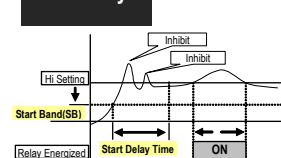


Decimal point: Settable from 0 / 0.0 / 0.00 / 0.000 / 0.0000

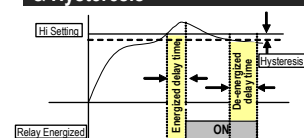
Control functions(optional)

Relay: 1 Relay SPDT, 5A/230Vac, 10A/115V
Relay Output: Energized levels are compared with set-points: Hi / Lo / Hi hold / Lo hold (latching) selectable
Functions: Start delay / Energized & De-energized delay / Hysteresis
 Start band: 0~9999 counts
 Start delay time: 0:00.0~9(Minutes):59.9(Seconds)
 Energized delay time: 9(Minutes):59.9(Seconds)
 De-energized delay time: 9(Minutes):59.9(Seconds)
 Hysteresis: 0~5000 counts

Start Delay



Energized / De-energized Delay & Hysteresis

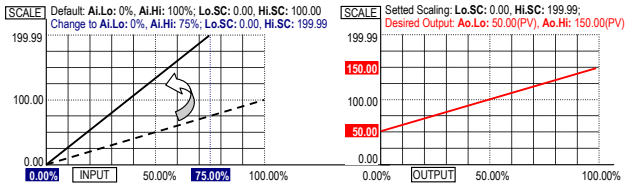


Analogue output(option)

Accuracy: $\leq \pm 0.2\%$ of F.S.;
Ripple: $\leq \pm 0.1\%$ of F.S.
Response time: ≤ 200 msec. (10~90% of input)
Isolation: AC 2.0 KV between input and output
Output range: Specify Voltage or Current
 Voltage: 0~5V / 0~10V / 1~5V selectable
 Current: 0~10mA / 0~20mA / 4~20mA selectable
 Voltage:0~10V: $\geq 1K\Omega$; Current: 0(4)~20mA: $\leq 600\Omega$
Output Drive: Ao.Hi(output high): PV Hi vs. output range Hi
 Ao.Lo(output range Low): PV Low vs. output range Lo

4½ Digit Ω (POT) with Alarm, A/O, RS485 Options

DP1-PM



RS 485 communication(optional)

Protocol: Modbus RTU mode
Baud rate: Selectable 2400/4800/9600/19200/38400
Data bits: Selectable 7 or 8 bit
Parity: Selectable Even, odd or none (with 1 or 2 stop bit)
Device no: Settable 1 ~ 255
Write function: Write to display value from PC's RS485 command

Power
Power Supply: AC 115/230V \pm 15%, 50/60Hz, DC 24V \pm 10%

Power consumption: 5.0VA
Back up memory: By EEPROM

Environmental

Operating temperature: 0~60 °C
Operating relative humi: 20~95 %RH, Non-condensing
Temperature coefficient: \leq 100 PPM/°C
Storage temperature: -10~70 °C
Enclosure: Front panel: IEC 549 (IP54)

Electrical safety

Dielectric Strength: AC 2.0 KV for 1 min
 Between Power / Input / Output / Case
 \geq 100M ohm at 500Vdc

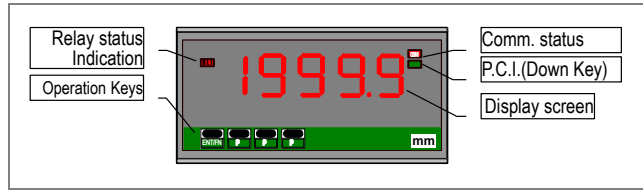
Insulation resistance: Between Power / Input / Output

Isolation: EN61326
EMC: EN61010
Safety: EN61010

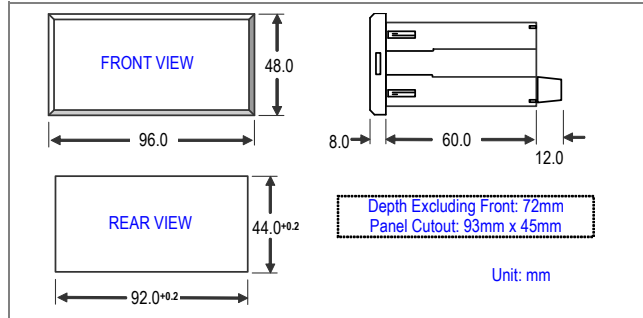
Mechanical

Dimensions: 96mm(W) x 48mm(H) x 72mm(D)
Panel cutout: 92mm(W) x 44mm(H)
Case Material: ABS fire-protected (UL 94V-0)
Mounting: Panel flush mounting
Terminal block: Plastic NYLON 66 (UL 94V-0)
 10A/300Vac, M2.6, 16~22AWG
Weight: About 350g

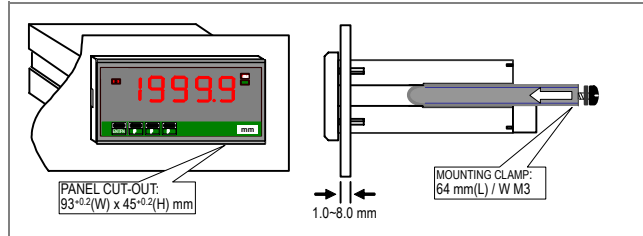
FRONT PANEL



DIMENSIONS



INSTALLATION



CONNECTION DIAGRAM

