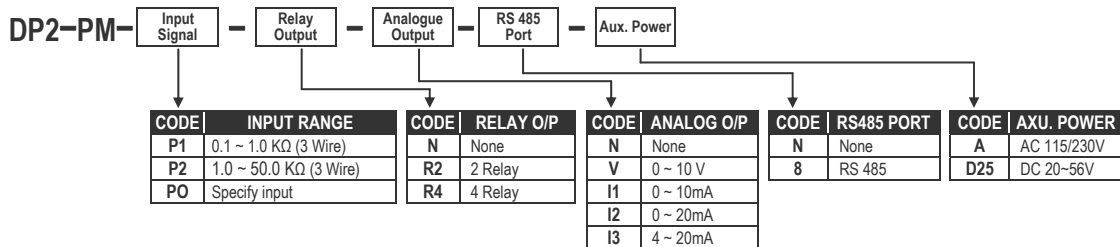


FEATURES

- Measures & Displays resistance from 0.1~1.0/~100.0K Ω (3 wire pot)
- Accuracy: $\pm 0.04\%$; Display range: -19999~29999
- Easily programmable via the front panel
- **Field calibration capability**
- **Up to 4 relays available, with latching and time delay programmable**
- Analogue output and RS 485 communication port option
- **3 external control inputs for reset and hold functions**
- CE Approved



ORDER CODING



SPECIFICATION

Measuring Range	Input Impedance	Excitation Voltage
0.1 ~ 1.0 K Ω (3 wired)	≥ 1 M ohm	About 0.2V
1.0 ~ 50.0 K Ω (3 wired)	≥ 1 M ohm	About 1.6V

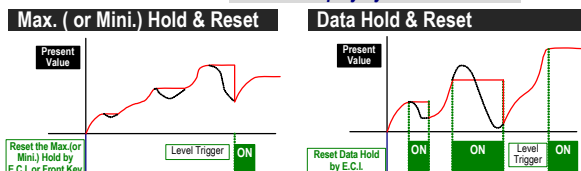
Calibration: Calibration from front panel
Field calibration function: Calibration in the field with potentiometer possible

Accuracy: $\leq \pm 0.04\%$ of FS ± 1 C;
Response time: ≤ 100 msec.(AvG = "1")

Operating Programming: 4 keys for Enter(Function) / Shift(Escape) / Up / Down
 Up key: increases the number /back to previous function
 Down key: decreases the number / go to next function
 Shift/Escape key: moves the flashing digit position / Return to upper level
 Enter/Fun key: enter the parameters you set or selects programming mode
 4 keys for Enter(Function) / Shift(Escape) / Up / Down
Security: 4 digit password
Lock: 3 security levels User / Master / None

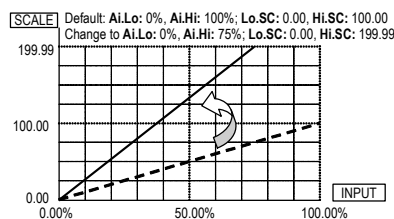
Display functions

LED: Measuring value: 0.56" red high-brightness LED
 Relay output indication: square red LED
 External control input: square green LED
 RS 485 communication: square red LED
 Max. / Mini. Hold: square red LED
Low Cut function: Low.cut :Settable range: 000~5000 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



Scaling

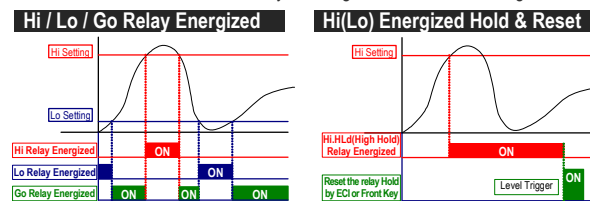
Input range function: Ai.Lo: 0~100% of input
 Ai.Hi: 0~100% of input
Scaling function: Hi.SC(High scale): -19999~29999
 Lo.SC(Low scale): -19999~29999



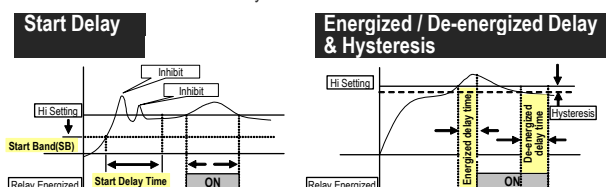
Decimal point: Settable from 00000~0.0000

Control functions

Relay: 2 Relays SPDT, 5A/230Vac, 10A/115V
 2 Relays SPST, 1A/230Vac, 3A/115V
Relay Output: Energized levels compare with set-points:
 Hi / Lo / Hi.HLd / Lo.HLd / do / Go-1.2 / Go-2.3
 DO function: Energized by RS485 command
 Relay Latching : Selectable Low or High Hold



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



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

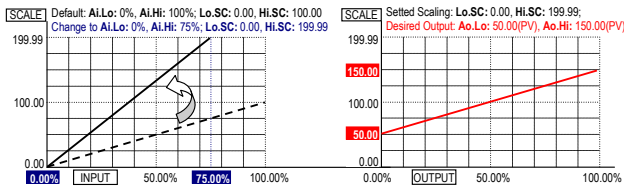
DP2-PM

External Control

Input mode: 3 inputs, Contact or open collect input
Functions: Present Value / PV Hold / Reset Max or Mini. Hold / DI / Reset latched relay
 De-bounce time: 5 ~255 x 8mseconds

Analogue output(option)

Accuracy: $\leq \pm 0.1\%$ of F.S.; 16 bits AD converter
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
Ao.Hi(output high): PV Hi vs. output range Hi
Ao.Lo(output range Low): PV Low vs. output range Lo
Ao.LMt(output High Limit): 0.00~110.00% of output High



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

Optional DC 20~56V

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: ≤ 100 PPM/°C
Storage temperature: -10~70 °C
Enclosure: Front panel: IEC 549 (IP54)

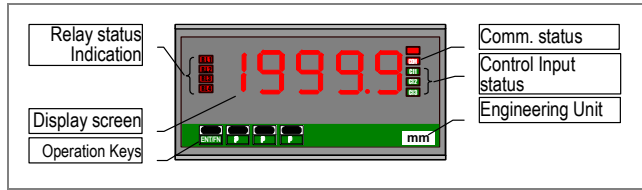
Electrical safety

Dielectric Strength: AC 2.0 KV for 1 min
 Between Power / Input / Output / Case
Insulation resistance: $\geq 100M$ ohm at 500Vdc
Isolation: Between Power / Input / Output
EMC: EN61326
Safety: EN61010

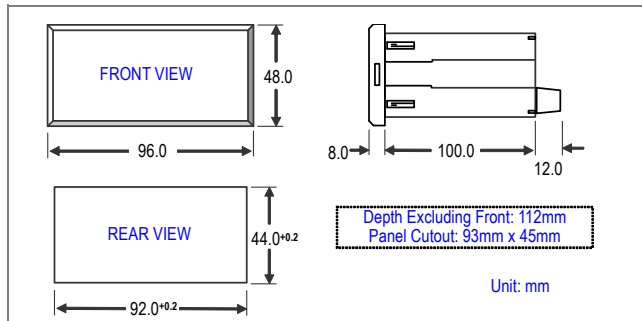
Mechanical

Dimensions: 96mm(W) x 48mm(H) x 120mm(D)
Panel cutout: 93mm(W) x 45mm(H)
Case Materiel: ABS fire-protection (UL 94V-0)
Mounting: Panel flush mounting
Terminal block: Plastic NYLON 66 (UL 94V-0)
 10A 300Vac, M2.6, 16~22AWG
Weight: 550g

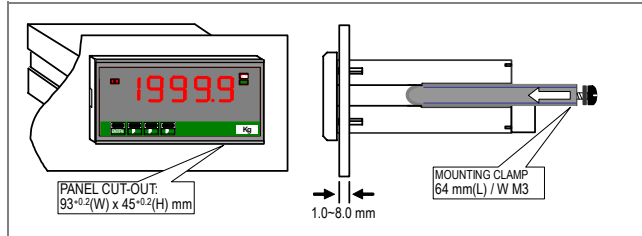
FRONT PANEL



DIMENSIONS



INSTALLATION



CONNECTION DIAGRAM

