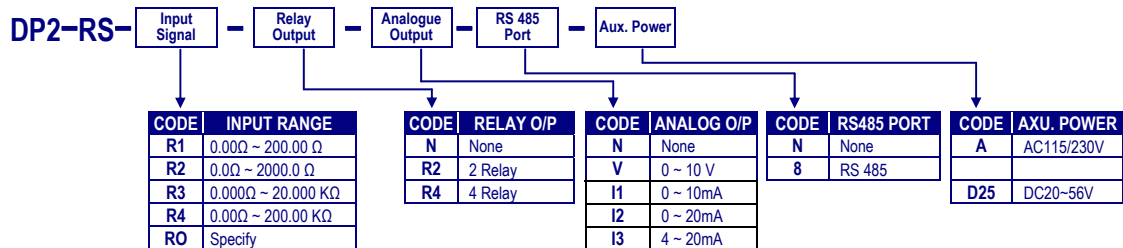


► FEATURES

- Measures & Displays resistance 0~200Ω / 2000Ω / 20.0KΩ / 200.0KΩ (2 wire)
- Accuracy: ± 0.04% or ± 0.1%; Display range: -19999~29999
- Easily programmable via the front panel
- *Field calibration capability*
- *Up to 4 relays available with latching and time delay programmable*
- *4 memory banks for all relay functions selectable by 3 External Control Inputs(E.C.I.) or programmable front key*
- Analogue output and RS 485 communication port option
- *3 external control inputs for Reset and hold functions*
- CE Approved



► ORDER INFORMATION



► SPECIFICATION

Measuring Range	Input Impedance	Excitation Voltage
0.0 Ω ~ 200.00 Ω (2 wired)	≥ 1M ohm	About 0.2V
0.0 Ω ~ 2000.0 Ω (2 wired)	≥ 1M ohm	About 0.2V
0.00 Ω ~ 20.000 KΩ (2 wired)	≥ 1M ohm	About 0.8V
0.00 Ω ~ 200.00 KΩ (2 wired)	≥ 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 possible without affecting factory calibration

Accuracy: ≤ ± 0.04% of FS ± 1C;
Response time: ≤ 100 msec.(when the AvG = "1")

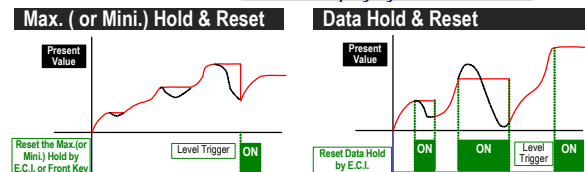
Operating Programming: 4 keys for Enter(Function) / Shift(Escape) / Up / Down
 Up key: increases the number /back to previous
 Down key: decreases the number / go to next function
 Shift/Escape key: moves the flashing digit position / Return to upper level
 Enter/Fun key: enter the parameters you set or selects programming mode
 4 keys for Enter(Function) / Shift(Escape) / Up / Down
 4 digit password

Security: 3 security levels User / Master / None

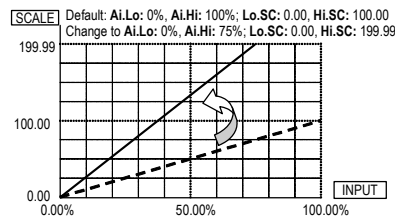
Display & functions LED: Measuring value: 0.56" red high-brightness LED
 Relay output indication: square red LED
 External control input: square green LED
 RS 485 communication: square red LED
 Max. / Mini. Hold: square red LED

Low Cut function: Low.cut :Settable range: -19999~19999 counts
Average function: AvG :Settable range: 1~99 times
Digital Filter: 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 0 / 0.0 / 0.00 / 0.000 / 0.0000

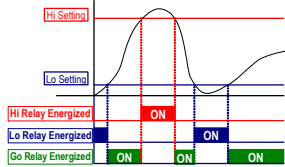
Control functions
Relay: 2 Relays SPDT, 5A/230Vac, 10A/115V
 2 Relays SPST, 1A/230Vac, 3A/115V
Relay Output: Energized levels compare with set-points:
 Hi / Lo / Hi.HLd / Lo.HLd / do / Go-1.2 / Go-2.3
 DO function: Energized by RS485 command
 Relay Latching : Selectable Low or High Hold

Memory pre-set function: 4 banks pre-set for all relay functions to relative 4 difference scaling, and selectable by 3 External Control Inputs(E.C.I.)or front key

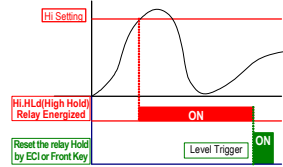
4½ Digit **RESISTANCE** with Alarm, A/O, RS485 Options

DP2-RS

Hi / Lo / Go Relay Energized

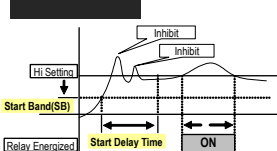


Hi(Lo) Energized Hold & Reset

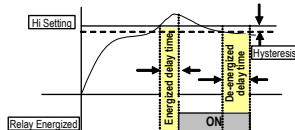


Functions: Start delay / Energized & De-energized delay / Hysteresis
 Start band: 0~9999 counts
 Start delay time: 0:00.0~9(Minutes):59.9(Second)
Energized delay time: 9(Minutes):59.9(Second)
De-energized delay time: 9(Minutes):59.9(Second)
 Hysteresis: 0~5000 counts

Start Delay



Energized / De-energized Delay & Hysteresis



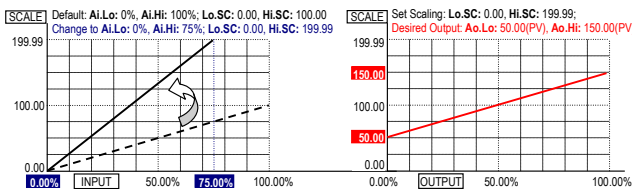
External Control Inputs (ECI)

Input mode: 3 ECI points, Contact or open collect input
Functions: Relative PV / PV Hold / Reset Max or Mini. Hold / DI / Reset for Relay Energized Hold / Bank selection
 Debouncing 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
Output Capability: Voltage: 0~10V; $\geq 1000\Omega$
 Current: 0(4)~20mA; 0~6000

Functions: Ao.Hi(output high): PV Hi vs. output range Hi
 Ao.Lo(output range Low): PV Low vs. output range Lo
 Ao.LM(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: Setable 1 ~ 255
Write function: Write to display value from PC's RS485 command

Power

Power Supply: AC 115/230V $\pm 15\%$, 50/60Hz
Optional: DC20~56V

Power consumption: 5VA
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

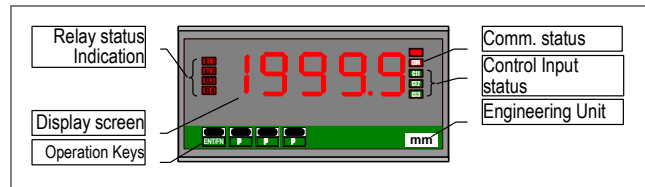
Dielectric Strength: AC 2.0 KV for 1 min
 Between Power / Input / Output / Case
Insulation resistance: $\geq 100M$ ohm at 500Vdc (continuous isolation)
Isolation: Between Power / Input / Output

EMC: EN61326
Safety: EN61010

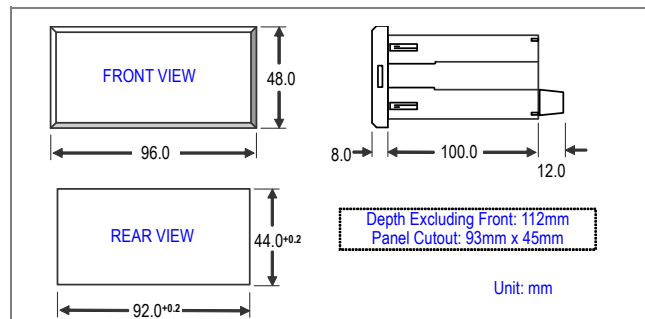
Mechanical

Dimensions: 96mm(W) x 48mm(H) x 120mm(D)
Panel cutout: 92mm(W) x 44mm(H)
Case Material: 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

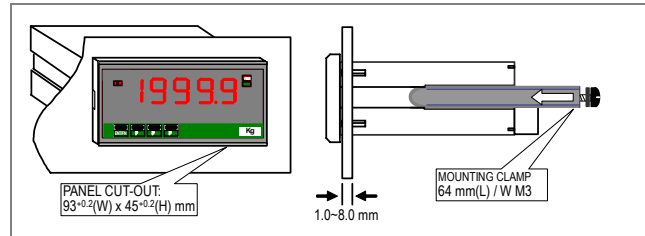
FRONT PANEL



DIMENSIONS



INSTALLATION



CONNECTION DIAGRAM

