

General Specifications

R.T.D. CONVERTER



This instrument is a high accurate converter which receives RTD as input signal and converts variation of resistance following temperature to DC voltage and current output signal.

Also developed feed back circuit by our company is ac-tualized high accurate linearization and compensation of line resistance.

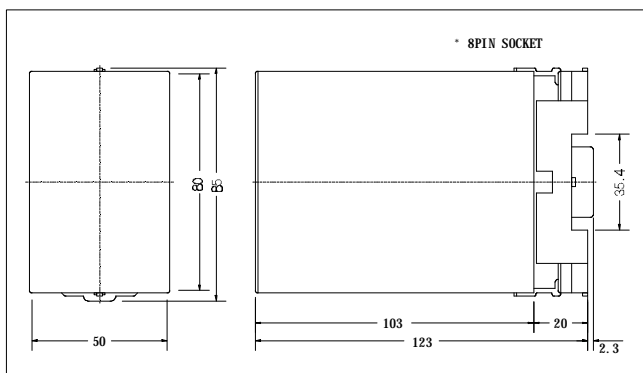
SPECIFICATIONS

| ITEMS | DESCRIPTIONS |
|---------------------------|--|
| INPUT | JPt 100Ω 3wire (over 50deg) Adjustment needed for 2 wire bulb Permissible resistance of cable less than 200Ω |
| SUPPLY CURRENT TO Pt BULB | DC 2mA |
| OUTPUT | DC Current or DC Voltage Signal |
| ACCURACY | ¼ 0.2% Max. |
| TEMP. COEFFICIENT | ¼ 0.02% / °F |
| LINEARITY | ¼ 0.02% F.S |
| REPEATABILITY | ¼ 0.05% F.S |
| RESPONSE TIME | Less than 0.5sec (0-90%) |
| INSULATION RESISTANCE | Greater than 100MΩ at DC 500V |
| DIRECTIC-STRENGTH | Input-Power AC1,500V |
| | Input-Output AC1,500V |
| | Input-Ground AC1,500V |
| | 1 minute |
| BURN-OUT | Upper Limit |
| POWER SUPPLY | AC110V AC220V ¼ 10% 50-60Hz 3.5VA |
| AMBIENT-TEMP | -5~+55°C (20~130p) |
| HUMIDITY | Less than 90% RH (no condensation) |
| LINEARIZER | Standard function |
| CASE MATERIAL | ABS |
| COLOR | MUNSELL No. 7.5YR 5/2 |
| WEIGHT | About 500g |
| DIMENSION | W40 x H80 x D123mm |
| MOUNTING | WALL or DIN Rail |
| OUTPUT | |
| LOAD RESISTANCE | Refer to Attached Technical Sheet. |

⌘ STANDARD INPUT RANGE (UNIT : ⌘)

| INPUT | RANGE |
|----------|---|
| JPt 100Ω | 0~50,0~100,0~150,0~200,0~250,0~300,0~400, 0~500,-20~+80,-50~+50,-50~+150,50~100, 50~150,100~200,100~300,200~400 |

DIMENSION



ORDERING CODE

MODEL : D P R B - [] [] [] - [] []

INPUT SIGNAL
 1 JPt 100Ω (JIS) 3-wire
 2 Pt 100Ω (DIN) 3-wire
 3 Others

OUTPUT SIGNAL
 1 DC 0~1mA
 2 DC 0~10mA
 3 DC 0~16mA
 4 DC 0~20mA
 5 DC 1~5mA
 6 DC 2~10mA
 7 DC 4~20mA
 8 Other Current (Less than 20mA)
 A DC 0~10mV
 B DC 0~100mV
 C DC 0~1V
 D DC 0~10V
 E DC 0~5V
 F DC 1~5V
 G Other Voltage (Less than 12V)

POWER SUPPLY
 1 AC110V 2 AC 220V 3 DC 24V

I/O ISOLATION
 G : General Y : Isolation

BURN OUT
 U : Up scale

* Please Specify the input range When you Order.

WIRING DIAGRAM

