



**RTD-BLOCK – 3 WIRE RTD TEMPERATURE TRANSMITTER**  
**4 TO 20 MA, LOOP POWERED TEMPERATURE TRANSMITTER**



## MAIN FEATURES

- *3 wires RTD Temperature transmitter*
- *4:20 mA , loop powered Temperature transmitter*
- *Configurable span*
- *Zero Point adjustment*
- *2 points calibration*
- *Up to 1200 Deg C.*
- *Turn down 25:1*

## DESCRIPTION

RTD - BLOCK is an advanced 4:20mA output loop powered Temperature Transmitter .

3-wire RTD Measurement is a typical implementation of a ratiometric used to implement automatic RTD lead-resistance compensation.

RTD TT BLOCK is provided with an "OPEN-CIRCUIT DETECTION" in case of open-circuit of the common leads the output current will go to its low current limit ( $\approx 2.2\text{mA}$ ) . In case of Open-circuit in the RTD Connections the output current will go to its high current limit ( $\approx 27\text{mA}$ ).

RTD TT BLOCK is designed to be simply inserted in a standard RTD temperature housing .

RTD TT BLOCK is used in food, chemical and petrochemical industries , machine and hydraulic applications etc.

## TECHNICAL DATA

### **Temperature range**

Up to 1200 deg C.

### **Output signal**

Signal span 4...20 mA , 2-wire

### **Output limits**

3.5...23 mA

### **Characteristic**

Linear

### **Accuracy**

< 0.25% f.s.

**Isolation voltage**

500 Vac

**Operating temp.**

-40-70°C

**Storage temp.**

-40-70°C

**Zero temp. coefficient**

0.04%F.S. /°C

**Span temp. coefficient**

0.04%F.S. /°C

**Insulation resistance**

&gt; 200Mohm/250VDC

**Vibration**

20g (20--5000HZ)

**Shock**

100g, 10ms

**Response time**

≤1ms(10% to 90%F.S.)

**RTD Sensor Connection**

3 wires (typical)

**ELECTRIC CONNECTION**

PIN 1 –	+ Input Power (24VDC Typical)
PIN 2 –	Ground
PIN 3 –	Cable lead
PIN 4 –	RTD Lead
PIN 6 –	Second RTD Lead

HOW TO ORDER

**RTD BLOCK – AA – BB – CC – OPTIONS**

AA – TYPE OF RTD

PT100 (TYPICAL)

PT1000

OTHERS (PLEASE SPECIFY)

BB - TEMPERATURE RANGE , PLEASE WRITE DIRECTLY

CC – 3 WIRE RTD CONNECTION (TYPICAL)

OPTIONS - PLEASE SPECIFY DIRECTLY.