



TT-BLOCK - TEMPERATURE TRANSMITTER
4 TO 20 MA, 2 WIRES TEMPERATURE TRANSMITTER
0 TO 5 VDC, 3 WIRES TEMPERATURE TRANSMITTER



MAIN FEATURES

- *4:20 mA , 2-wire Temperature Transmitter*
- *0 – 5VDC , 3-wire Temperature Transmitter (typical). Could be changed to 0-10VDC if specified.*
- *Configurable span*
- *2 points calibration*
- *Up to 1000 Deg C.*
- *Hygienic process connection*
- *Turn down 25:1*
- *IP66 Certified .*
- *IEC60529 Certified.*

DESCRIPTION

TT BLOCK is an advanced Temperature Transmitter could be configured as 4:20mA output 2 wires loop powered transmitter or 0 – 5VDC , 3-wire Temperature Transmitter (typical). Could be changed to 0-10VDC if specified .

Configuration is simply done by a 4 position DIP switch inside the transmitter.

Temperature sensor is a standard can be applied in air as well as liquid Temperature measuring. A high sensitivity sensor is employed in the transducer. The sensor is welded with the housing,

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

Hygienic process connections and wide range of process connections together with the configurable facilities make TT BLOCK is the ideal choice for all Temperature measuring applications.

The mounting of the Temperature Transmitter ensures fast response time,excellent temperature compensation and high measuring accuracy.

Accessories are usually supplied separately and must be assembled by the customer. However, if you prefer the accessories to be assembled from the factory prior to delivery, please specify.

TECHNICAL DATA

Temperature range

Up to 1000 deg C.

Output signal

Signal span 4...20 mA, 2-wire
0-5VDC, 3-wire

Output limits

3.5...23 mA

Characteristic

Linear

Accuracy

< 0.2% 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

> 200Mohm/250VDC

Vibration

20g (20--5000HZ)

Shock

100g, 10ms

Response time

≤1ms(10% to 90%F.S.)

Housing and diaphragm

Stainless steel 316L

Sensor wire connection

2 wire (typical)

ELECTRICAL CONNECTIONS

Cable entry

DIN43650A connector

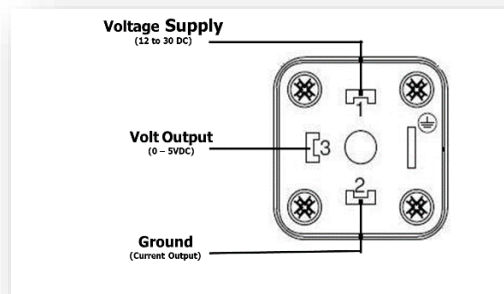


Cable Connection

PIN 1 – Input Power (12 – 30VDC)

PIN 2 – Ground , (4-20 mA output if selected)

PIN 3 – 0-5VDC output (if selected).

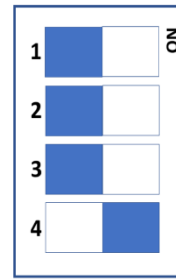


CHANGING OF OUTPUT SIGNAL

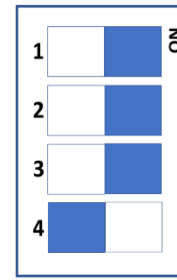
It is easy to change the output signal from 4-20mA to 0-5VDC by changing the position of the 4 DIP switches installed on the transmitter main board.

Open the transmitter and position the 4 DIP switches as shown in the following sketch.

Normally this operation is done before the final installation and the transmitter must be calibrated after.



DIP SWITCH POSITION FOR
4-20 mA Current Output



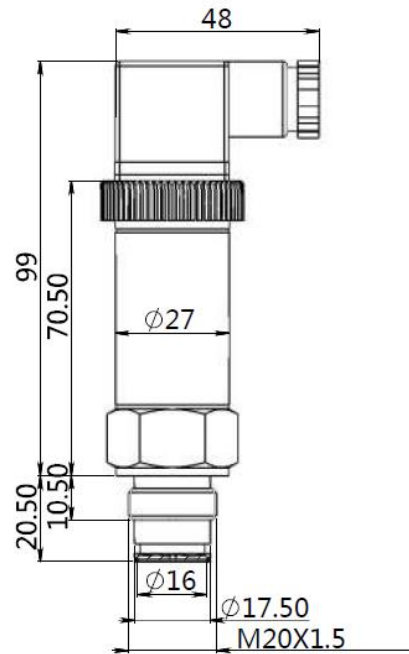
DIP SWITCH POSITION FOR
0-5VDC Output

ADDITIONAL DESCRIPTION

The mounting of the Temperature Transmitter ensures fast response time , excellent temperature compensation and high measuring accuracy.

Accessories are usually supplied separately and must be assembled by the customer. However, if you prefer the accessories to be assembled from the factory prior to delivery, please specify

DIMENSIONS



LOOP POWERED INDICATOR (OPTIONAL)

- *4 Digit Display.*
- *2 wires , no additional power supply required.*
- *High accuracy and stability. 0.2% of span ±1 digit*
- *Visible in the dark environment.*
- *Easy to program using 2 push buttons.*
- *Compact Designed.*



HOW TO ORDER

TT BLOCK – AA – BB – CC – DD – EE – OPTIONS

AA – TYPE OF SENSOR

PT-100

PT-1000

BB - TEMPERATURE RANGE , PLEASE WRITE DIRECTLY

CC – SENSOR LENGTH IN MM

DD - TEMPERATURE CONNECTION

M20*1.5

G1/2 (TYPICAL)

OTHERS (PLEASE SPECIFY)

EE – TYPE OF OUTPUT

4 - 20 MA

0 – 5VDC

0 – 10VDC

OTHERS (PLEASE SPECIFY)

OPTIONS - PLEASE SPECIFY DIRECTLY.