INPUT: Pt100 MOUNTING: IN-HEAD



- Solder jumpers for
 - Span
 - Zero
 - Upscale / Downscale
 - 4~20 mA / 20~4 mA
- Multirange: 8 SPAN ranges, 25 to 600 C° / 45 to 1080 F°
 4 ZERO ranges, -100 to +70 °C / -148 to +158 °F
- Accurate: 0.1% temperature linear 4~20 mA output
- 6.5 V loop drop allows 800 Ω load @ 24 V DC
- Upscale / downscale selectable sensor break detection
- 4~20 mA or 20~4 mA selection
- ON LED shows state
- Pt50, Pt200, Pt500, Pt1000 on request

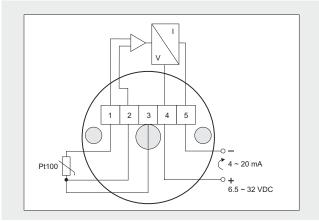
GENERAL

TRX10H is a head mounted high performance, "all-in-one" 2-wire temperature transmitter. Its high reliability industrial design offers some rare functions, e.g. 4~20 mA or 20~4 mA selection.

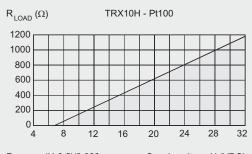
TRX10H with Pt100 input is adjustable for 8 overlapping ranges in °C or °F and gives a temperature linear output. All selections are made by solder jumpers. 'Fine' ZERO/SPAN potentiometers are provided for calibration.

The flat design gives easy access to terminals & adjustments. The large central hole lets the lead wires or an insert tube pass easily.

CONNECTION DIAGRAM

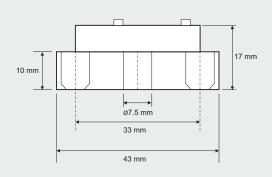


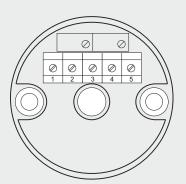
OUTPUT LOAD



R_{LOAD} = (U-6.5)/0.022 Supply voltage U (VDC)

ENCLOSURE





INPUT: Pt100 MOUNTING: IN-HEAD

SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

INPUT

Input type Sensor current Other input types Pt100 (α = 0.00385), 3-wire connection 0.3 mA

Pt50, Pt200, Pt500, Pt1000 on request

MONITORING

Sensor break detection, selectable

Upscale ~ 25 mA, Downscale ~ 3 mA

ON LED

ADJUSTMENTS

Zero selection

-100 to +70 °C (-148 to +158 °F) in 4 overlapping ranges (see table below) \pm 10%

Zero, fine adjustment Span selection

25 to 600 C° (45 to 1080 F°), 8 overlapping ranges (see table below)

Span, fine adjustment

OUTPUT

Current, selectable Linearity Current limit Permissible load 4~20 mA, 20~4 mA Temperature linear

~25 mA

Provided

800 Ω @ 24 VDC, 22 mA

CCURAC

 $\begin{array}{lll} \textbf{Linearity \& calibration} & \pm 0.1\% \text{ of span} \\ \textbf{Temperature effect} & \pm 0.5\% \text{ of span } / 25 \text{ C}^\circ \\ \textbf{on accuracy} & \pm 0.6\% \text{ of span } / 50 \text{ F}^\circ \\ \textbf{Supply voltage effect} & \pm 0.002\% \text{ of span } / \text{ V} \\ \end{array}$

POWER SUPPLY Supply voltage

ENCLOSURE

Material Mounting Connection,

single/stranded wires Weight Protection Zinc alloy DIN B-head or larger ≤ 2.5 mm², AWG 14

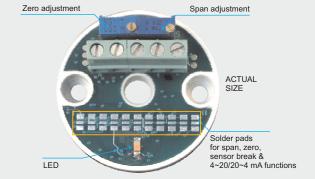
6.5 to 32 VDC

70 grams IP 20

TEMPERATURE, HUMIDITY

Ambient, storage Ambient, operation Relative humidity -20 to +85 °C (-5 to +185 °F) -20 to +55 °C (-5 to +160 °F)

0 ~ 95%



ZERO, SPAN Zero selection Span selection °С ٥F C° F° -102 to -65 -150 to -85 25 45 -68 to -21 -90 to -5 90 -18 to +84 -28 to +29 100 180 +21 to +163 -6 to +73 200 360 300 540 400 720 500 900

The above zero & span selections are done using solder jumpers. The calibration for a given range is then done using the '4' & '20' mA potentiometers on the instrument front.

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