

TW304

THERMOCOUPLE INPUT TWO-WIRE TRANSMITTER

FEATURES

- Provides DC Output Proportional to any Thermocouple Input
- · Cold Junction Compensated
- · 5 mV Minimum Input Span
- Unlimited* Choice of Input Ranges
- · 50 mm X 50 mm Case
- · Upscale Burnout Protection
- · Low-Drift Chopper Stabilized Input
- NEMA-4 Connection Head and Explosion-Proof Housing Available
- · Low Cost
- · 5 Year Warranty

DESCRIPTION

The TW304 is a low cost, reliable, thermocouple input, 2-wire transmitter for field or panel mounting in various industrial housings and enclosures. It provides a DC output current proportional to any thermocouple input signal.

All Wilkerson products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning. Optional coating of the electronic components makes the TW304 extremely reliable and resistant

to the corrosion, moisture and fungus associated with many industrial environments.

The output ZERO and SPAN controls are accessible through the top of the case. Terminations are made to screw terminal connectors on the top of the case. Cold junction compensation is provided by a solid state temperature sensor embedded in the thermocouple terminal strip. Upscale burnout protection is provided as standard. In the event the thermocouple

opens, the transmitter output will go offscale high.

TYPICAL APPLICATION

Remote temperature data acquisition.

SPECIFICATIONS

INPUT RANGE

select any type thermocouple (min span 5 mV)

OUTPUT RANGE

4/20 mA

MAX LOAD RESISTANCE

Rmax= [(Vsupply - 12V)/.020mA] kilohms

RESPONSE TIME

150 ms typical

ACCURACY

±0.1% of span

COMMON MODE REJECTION

120 dB, DC to 60 Hz

OPERATING TEMPERATURE

-13°F to 176°F / -25°C to 80°C

TEMPERATURE STABILITY

±0.02% of span or 0.025°C/°C, whichever is greater

POWER REQUIRED

12 to 48 VDC, polarity protected

SUPPLY VOLTAGE EFFECT

0.02% of span max, 12 to 48 VDC

* Within specified range limits.

ORDERING INFORMATION

INPUT

Select Units

□ Deg C □ Deg F

Enter Input

Zero Scale

Full Scale

Select Sensor

☐ J TC

☐ K TC

□ R TC

☐ S TC

☐ T TC □ E TC

□ N TC

B TC

□ Other - Specify in Notes

Open Sensor Response

☐ Upscale ☐ Downscale

OPTIONS

□ Conformal Coating

TAGS

Specify Tag Numbers

Tag number is typed on product label at no charge.

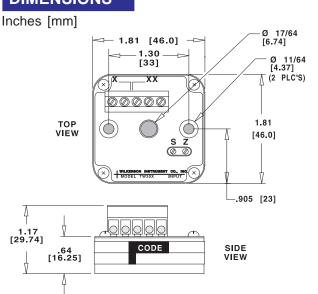
Enter Tag Number(s)

ACCESSORIES

TW304

DMP2000 Mounting Plate, DIN-Rail & Surface (SR2000 & TW300) QTY TSH-A6L NEMA-4 Aluminum Connection Head (SR2000 & TW300) QTY DR1 DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter) QTY_ **XJAY** Explosion-Proof Housing (SR2000 & TW300 Series) QTY

DIMENSIONS



CONNECTIONS

Power Supply + PIN P.S. + PIN P.S. -Power Supply -PIN T/C + Input + PIN T/C -Input -



2915 Parkway Street Lakeland, FL 33811-1391 · USA

Tel: 863-647-2000 · Fax: 863-644-5318 www.wici.com · Email:sales@wici.com