

Dual DIN Rail Temperature Transmitter

TXDIN70



- ✓ Provides Two-Channel Transmitters or Signal Isolators (4 to 20 or 0 to 20 mA)
- ✓ Programmable Input Types and Ranges with the Optional External Display
- ✓ DIN Rail Mounted
- ✓ Use Ungrounded Thermocouple Only
- ✓ Universal Power Supply

It provides 2 channels of configurable inputs, and supports multiple voltage, RTD, thermocouple inputs with auto reference junction compensation. Each channel has its own digital filtering and can adjust its filtering degree.

- Generates two isolated current outputs, 4 to 20 or 0 to 20 mA
- Range of retransmission output can be freely defined
- The model is DIN rail mounted. Its width is only 22.5 mm
- Can be easily configured by connecting to our E8 handset display
- Universal power supply of 100 to 240 Vac or 24 Vdc

Specifications

Input Type

Thermocouple: K, S, R, E, J, T, B, N, WRe5-WRe26

RTD: Pt100, Cu50

Linear Voltage: 0 to 20 mV, 0 to 60 mV, 0 to 100 mV, 0 to 1V, 0.2 to 1V

Instrument Input Range:

Style K: -50 to 1300°C

Style S: -50 to 1700°C

Style R: -50 to 1700°C

Style T: -200 to 350°C

Style E: 0 to 1000°C

Style J: 0 to 1200°C

Style B*: 0 to 1800°C

Style N: -50 to 1300°C

Style WRe5%/WRe26: 0 to 2300°C

Style Pt100: -200 to 900°C

* **Note:** B thermocouple obtains the measurement accuracy only at the range of 400 to 1800°C. It's measurement from 60 to 400°C is less accurate.

Linear Input: -9990 to 30,000 units defined by user

Retransmission Accuracy: 0.3% full scale ± 1 digit (including input and output error)



Both shown smaller than actual size.

Output Specification: Can be freely defined in the range of 0 to 22 mA with maximum output voltage $\geq 11V$

Temperature Drift: $\leq 0.015\%FS/^\circ C$ (including the temperature drift of input and output)

Electromagnetic Compatibility (EMC): ± 4 KV/5 KHz according to IEC61000-4-4 (EFT); 4 KV according to IEC61000-4-5

Isolation Withstanding Voltage: Voltage between power, signal input and output terminals ≥ 2300 Vdc

Power Supply: 100 to 240 Vac, -15%, +10%/50 to 60 Hz; or 24 Vdc/Vac

Power Consumption: $\leq 3W$

Operating Ambient Temperature: -10 to 60°C; humidity $\leq 90\%$ RH

Dimensions: 100 H x 22.5 W x 100 mm D (3.9 x 0.89 x 3.9")

Weight: 85 g (0.18 lb)

To Order Visit omega.com/txdin70 for Pricing and Details

Model No.	Description
TXDIN70	DIN rail temperature transmitter/isolator
TXDIN70-24V	DIN rail temperature transmitter/isolator 24 Vac/Vdc
TXDIN70-DISPLAY	External plug-in display

Comes complete with operator's manual.

Ordering Example: TXDIN70, DIN rail temperature transmitter and TXDIN70-DISPLAY, plug-in display.

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