

# Universal DIN Rail Transmitter



TXDIN1600 Series  
Starts At  
**\$195**



Free Software\*  
Download, Visit  
[omega.com/ftp](http://omega.com/ftp)

✓ Simple Configuration  
Via USB Port

✓ Universal Pt100,  
Thermocouple, mV,  
mA Input

✓ Isolated Input

#### TXDIN1610

✓ Push Button User Trim

✓ 4 to 20 mA, 2-Wire Output

#### TXDIN1620

✓ Push Button User Trim

✓ 3-Wire Isolated Voltage  
Output

#### TXDIN1630

✓ Dual Relay Outputs  
250 Vac 1 Amp

✓ Relay Isolated From  
Each Other



TXDIN1620, \$219,  
shown actual size.



TXDIN1630, \$219,  
shown actual size.

The TXDIN1600 Series is a new generation DIN rail mounted temperature transmitter. It has been designed to accept most common process and temperature sensor inputs and provide the user with a standard two wire 4 to 20 mA output signal. Isolation is provided between input and output and all temperature ranges are linear to temperature.

Designed for ease of use, our latest USB interface is fitted for quick and easy configuration. Just connect a standard USB cable between the TXDIN1600 and your PC. Using our free configuration software, your PC will automatically upload the existing configuration data and guide you through any changes you wish to make. To further help save time, the TXDIN1600 does not need to be wired to a power supply during the configuration process, it is powered via the USB interface from your PC.

The TXDIN1600 is also provided with user push button trim, allowing trim adjustments at both 4 mA and 20 mA. The user trim function can be locked during configuration if not required. The range led indicates out of range input during normal operation, during user trim it is used to indicate the stage of trim.

### Specifications

**Isolation:** Input to output tested at 500 Vdc

**Ambient:** Operating -20 to 70°C (-4 to 158°F) 10 to 95% RH non-condensing

**Storage:** -40 to 85°C (-40 to 185°F)

**Approvals:** CE tested to BS EN 61326

**Dimensions:** 17.5 W x 56.4 D x 90 mm L (0.7 x 2.2 x 3.5")

**Material:** Polmide 6.6

**Self Extinguishing**

**Terminals:** Screwing terminal

**Cable:** 2.5 mm (0.1") max

**Color:** Gray

### Output

#### TXDIN1610

**Type:** 2-wire current sink; signal range 4 to 20 mA; full range 3.8 to 24 mA

**Supply:** 11 to 30 Vdc, 24V nominal giving max loop load of 600 R @ 24V

**Response Time:** <500 ms to reach 95% of final value; start up time <3 s

**Calibration Accuracy:** ±5 uA

**Loop Effects:** Loop ripple 0.03% of FSR; supply sensitivity 0.05 uA/°C; supply ripple rejection <±5 uA error @ 1V rms 50 Hz ripple

**Protection:** Reverse connection and over-voltage protection, max over voltage current 100 mA

\* Requires USB cable, OM-62-USB-CABLE, \$10, sold separately.



**User Trim:** Raise and lower buttons, active for offset when output is between 3.8 to 6 mA, span between 18 to 22 mA, trim lock option

**TXDIN1620**

**Type:** 3-wire voltage output with programmable ranges: 0 to 10, 0 to 5, 2 to 10, 1 to 5, and 0 to 1V

**Supply:** 15 to 28 Vdc

**Response Time:** <500 ms to reach 95% of final value; start up time <3 s

**Calibration Accuracy:** ±5 mV

**Output Drive:** 2 mA driving 5 kΩ @ 10V

**Protection:** Reverse connection and over-voltage protection, max over voltage current 100 mA

**User Trim:** Raise and lower buttons, active for offset when output is at offset and span, trim lock option

**TXDIN1630**

**Type:** Dual form C relay contacts

**Supply:** 24 Vdc ± 5% @ 40 mA max

**Response Time:** <500 ms to reach 95% of final value; start up time <3 s

**Contact Rating:** 250 Vac rms @ 1 A; 30 Vdc @ 1 A resistive load

**Trip Type:** Individual trips A and B may be set at high or low level, full range setpoint plus adjustable

**Ranges:** Setpoint programmed on units, covering full range of input

**Hysteresis:** Set in units

**Protection:** Reverse connection and over-voltage protection, max over voltage current 100 mA



TXDIN1620, \$219, shown smaller than actual size.



TXDIN1630, \$219, shown smaller than actual size.

**Inputs**

Input	Range	Accuracy*
<b>K</b>	-200 to 1370°C (-328 to 2498°F)	0.1% of FSR ±0.5°C (±33°F) [Type T 0.2% FSR ±0.5°C (±33°F)]
<b>J</b>	-100 to 1200°C (-148 to 2192°F)	
<b>E</b>	-100 to 1000°C (-148 to 1832°F)	
<b>N</b>	-180 to 1300°C (-292 to 2372°F)	
<b>T</b>	-100 to 400°C (-148 to 752°F)	
<b>R</b>	-10 to 1760°C (14 to 3200°F)	±0.5°C (±33°F) ±0.1% of FSR**
<b>S</b>	-10 to 1760°C (14 to 3200°F)	
<b>Pt100</b>	-200 to 850°C (-328 to 1562°F)	±0.1°C (±32°F)/±0.05% of rdg
<b>mV</b>	-40 to 75 mV	±0.04 mV
<b>mA</b>	-10 to 25 mA	±0.008 mA

\* Accuracy for Pt100 and T/C do not include sensor and cold junction errors.

\*\* Only over the range 800 to 1600°C (1472 to 2912°F).

**AVAILABLE FOR FAST DELIVERY!**

<b>To Order (Specify Model Number)</b>		
Model No.	Price	Description
TXDIN1610	\$195	Universal DIN rail transmitter
TXDIN1620	219	Universal DIN rail transmitter with 3-wire isolated voltage output
TXDIN1630	219	Universal DIN rail trip amplifier
OM-62-USB-CABLE	10	USB cable for software

Comes complete with operator's manual.

Ordering Example: TXDIN1610, universal DIN rail transmitter, \$195.

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