



Universal Input Temperature Transmitter With Solid State Relay Output

TX86
\$339



- ✓ Universal Input RTD, T/C, Ω , POT and mV
- ✓ Models for 100, 200, 500, 1000 Ω , 0.00385 2- or 3-Wire RTD's
- ✓ Field Scalable
- ✓ Programming by Push-Buttons on Front
- ✓ Isolation 1000 VRMS Between Input and Output
- ✓ Self-Diagnostic With Temp Drift Compensation
- ✓ LED Display—High Brightness
- ✓ Sensor O/C and S/C Detection
- ✓ Solid State Relay Output



TX86, \$339, shown larger than actual size.



The TX86 is a 2-wire Loop-Powered, Galvanic-Isolated, Programmable Universal Input Temperature Transmitter that is designed to be head-mounted, but can be standalone as well. It uses 16 bits A/D and D/A converters offering high accuracy with Linearized 4 to 20 mA or 20 to 4 mA outputs. Being a user-friendly rugged instrument, it displays the measured variable and has a SSR output.

The TX86 has 3 push buttons on its front keyboard & a 4-digit 7-segment bright LED display module that indicates the values of the measured parameters during the Measuring Mode while also providing prompting and programming instructions during the setup and calibration mode routines.

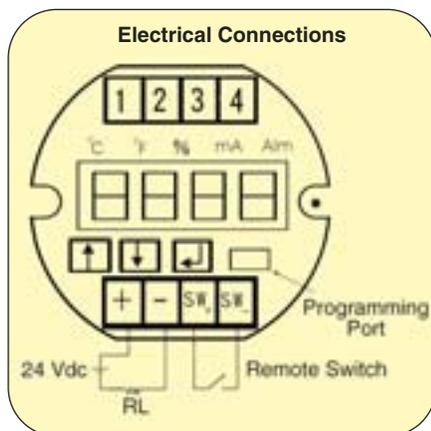
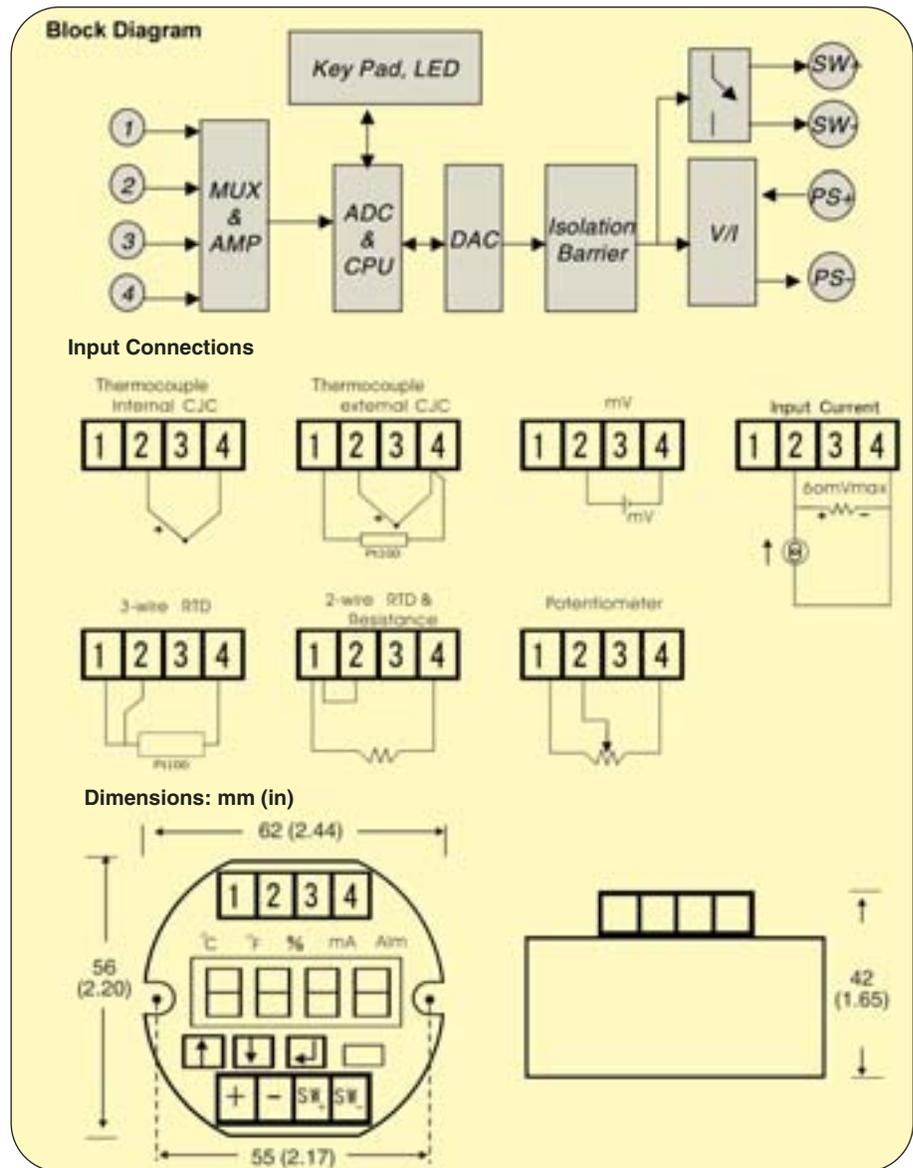
The 1000V AC galvanic isolation removes all ground loop effects. Three different engineering units ($^{\circ}\text{C}$, $^{\circ}\text{F}$ and %), can be displayed and the chosen unit is highlighted by an associated LED lamp when in the measuring mode.

Specifications

Input Sensors	Measured Range ($^{\circ}\text{C}$)	Minimum Span ($^{\circ}\text{C}$)
K	-100 to 1372	50
J	-100 to 750	50
T	-100 to 400	50
E	-100 to 750	50
R	0 to 1700	50
N	-100 to 1300	50
S	0 to 1700	50
B	400 to 1800	50
100PT	-200 to 850	50
200PT	-200 to 500	50
500PT	-200 to 200	25
1000PT	-200 to 200	25
Ni120	-80 to 260	50
Cu10	-100 to 260	50
Resistance	0 to 2000 Ω	50 Ω
Potentiometer	0 to 2000 Ω	50 Ω
mV (millivolts)	-5 to 60	2 mV

General Performance:

- (@ 24 Vdc, 25°C ±2°C)
- Loop Power:** 12 to 30 Vdc, LED indicator reverse polarity protected 60 Vdc
- Output:** 4/20 mA calibrated; 3.8 to 20.5 mA linear
- Resolution:** 2 uA
- RTD Excitation Current:** 30/150 uA ± 2%
- Input Impedance:** 1 MΩ, nominal
- Maximum Load:** 50 x (Vsupply – 12V) Ω
- Accuracy:** ± 0.2% of full scale input
- Long-Term Stability:** ± 0.15%/ year
- Temp. Coefficient:** ± 0.01%/°C (5 to 50°C)
- Dampening Constant:** Programmable
- Configuration:** Via 3 push-buttons on front
- Solid State Relay Output:** 30 mA maximum
- Cold Junction Comp:** ± 2°C max (5 to 50°C)
- Power Supply Effect:** Less than 0.01%/V
- Input Protection:** 40 Vdc maximum
- Sensor Burnout:** Upscale >21mA, downscale <3.8 mA
- Isolation Rating:** 1000V RMS continuous
- Response Time:** 1 second with dampening off
- Power-on Response:** Within 5 seconds
- Ambient Temps:** -20 to 70°C (-4 to 158°F) (storage and operation)
- Relative Humidity:** 20 to 90%, non-condensing
- Dimensions:** 62 Dia x 42 mm H (2.5 x 1.7")
- Mounting:** Head-mounted
- Housing:** Plastic, polycarbonate
- Weight:** 80 g (0.18 lb)



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
TX86	\$339	Universal input transmitter
PSR-24S	60	Regulated power supply, 24 Vdc, 400 mA, screw terminal
PSR-24L	60	Regulated power supply, 24 Vdc, 400 mA, UL, stripped leads
PSR-24L-230	60	Regulated power supply, 24 Vdc, 400 mA, stripped leads, 230 Vac input, CE
PSU-93	40	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
PE-1050	100	Reference Book: Introduction to Control System Technology

Ordering Example: TX86, universal transmitter, and PSR-24S, regulated power supply, \$339 + 60 = \$399.



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• Flow and Level

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters