

October 2022

► Description

The T2X-DWB Wall-Mount Room Air Temperature Monitoring System delivers the long-term stability of Moore Industries' T2X transmitter while being enclosed in a durable wall-mounted box. It can be used in a wide range of indoor temperature sensing applications.

The PC-programmable T2X-DWB has an internal 1000 ohm RTD for room temperature sensing. It provides a proportional 4-20mA output that is linear with temperature, and ready for direct interface with a monitoring and/or control system.

Figure 1. Installation Dimensions

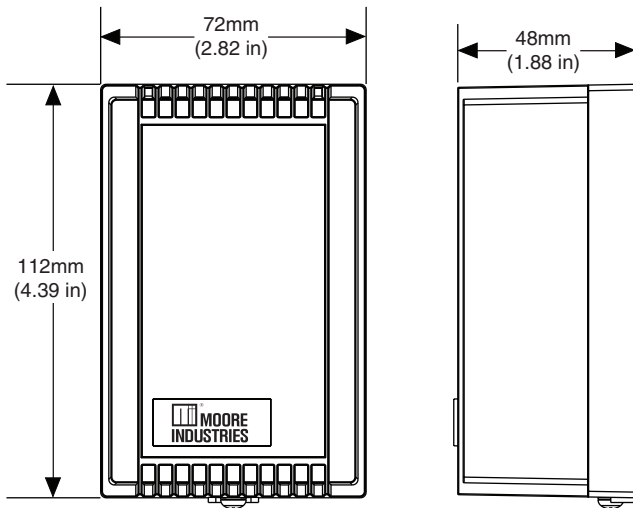


Figure 2. In less than a minute, you can set up the T2X-DWB using our single window Intelligent PC Configuration Software.



The T2X-DWB mounts directly to a wall for quick and easy installation..

► Features

- **Easy Mounting.** Mounts easily to a wall for simple installation.
- **Maximum Air Flow.** Sensor placement and vented housing design allow for maximum air flow.
- **Easy Setup With Free Software.** Sets up in a minute or less with single window Intelligent PC Configuration Software.
- **Proportional 4-20mA Output.** Provides a proportional 4-20mA output that is ready for direct interface with a monitoring/control system.
- **Independent Output.** Independent input and output scaling capabilities.
- **Warranty.** Full 3-year warranty.

Certifications

CE EMC Directive 2014/30/EU
EN 61326

T2X-DWB

Wall-Mount Room Air
Temperature Monitoring System

► Specifications

<p>Performance Input Accuracy: Platinum RTD, ±0.4°C (±0.7°F) Output Accuracy: Input Accuracy + 0.1% of output span NOTE: Overall accuracy is determined by combining input and output accuracy. It includes the combined effects of linearity, hysteresis, repeatability and adjustment resolution. It does not include ambient temperature effect. Calibration: Set at factory; sensor cannot be removed Minimum Span: 10°C (18°F) Stability (maximum span): 1 year = ±0.12% 3 years = ±0.21% 5 years = ±0.27% Measurement Cycle: Output updates at least 8 times per second Output Response Time: 256msec typical, 360msec maximum, for the output to change from 10% to 90% for an input step change of 0% to 100%</p>	<p>Performance (Continued) Over-Voltage Protection: Output, 48Vdc, maximum; Reverse Polarity, 48Vdc, maximum Digital Input Filter: User-selectable, 50/60Hz Power Requirement: 8-42Vdc Power Supply and Load Effects: Negligible within specified power limits Load Capability: 700 ohms@24V $\frac{\text{Supply Voltage} - 8V}{0.024A} = \text{Ohms}$ Burnout Protection: User-programmable, Upscale to 23.6mA; Downscale to 3.3mA RTD Lead Wire RTD Excitation: 250 microamps, ±10% Ambient Conditions Operating Range: -40°C to +85°C (-40°F to +185°F) Storage Range: -55°C to +105°C (-67°F to +221°F) Relative Humidity: 0-95%, non-condensing</p>	<p>Ambient Conditions (Continued) Ambient Temperature Effect: ±0.015% of span/°C change RFI/EMI Immunity: 10V/m@80-1000MHz, 1kHz AM when tested according to IEC 61326 with an error of 0.5% of span or less Noise Rejection: Common mode: 100dB@50/60Hz; Normal Mode: 70dB typical at 200mVp-p@50/60Hz Set Up All settings are made using Moore Industries' T2X-DWB PC Configuration Software, and then stored in nonvolatile memory Weight 113 grams (4 oz.)</p>
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► Ordering Information

Unit	Input	Output	Power	Options	Housing
T2X Wall-Mount Room Air Temperature Monitoring System	PT10 Pt 3850 RTD, fixed 1000 ohm	Current Any range between 4-20mA	8-42DC ±10%	-VTD Standard Factory Calibration	DWB Decorative Wall Box

When ordering, specify: Unit / Input / Output / Power / Options [Housing]

Model number example: T2X / PT10 / 2-40MA / 8-42DC [DWB]

► Accessories

Each T2X-DWB order comes with one copy of our Configuration Software (Windows® compatible) on CD. To order additional software or cables, refer to the chart.

Part Number	Part
750-75E05-01	T2X-DWB PC Configuration Software Program
803-039-26	Isolated Serial Configuration Cable
803-040-26	Non-Isolated Serial Configuration Cable
804-030-26	Fuse Protected, Non-Isolated USB Communication Cable



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