

USB-TEMPERATURE TRANSMITTER



SERIES : ADT 6000-USB

2 Wire TEMP. TRANSMITTER Universal Input (Head Mounted)

The **Temperature Transmitter-USB** is a high precision head mounted temperature transmitter. The universal input reduces inventory while the native USB port facilitates ease of configuration, calibration and online monitoring in the lab or in the field.

USB port for configuration
and calibration



FEATURES :

- ✗ Universal input accepts Thermocouples J, K, T, E, N, R, S, B and Pt100, Pt1000 and NTC RTD with programmable working range
- ✗ Loop powered 4-20 mA output
- ✗ Linearized 4 to 20 mA or 20 to 4 mA output
- ✗ Cold junction compensation for thermocouples
- ✗ Cable resistance compensation on 3 or 4 wires Pt100 connection
- ✗ USB micro-B port allows direct PC connection for configuration. USB Class CDC
- ✗ Free Windows configuration software
- ✗ Power supply: 8 to 35 Vdc
- ✗ RTD Typical Accuracy: $\pm 0.08\%$ for Pt100 and Pt1000 and $\pm 0.3^\circ\text{C}$ for NTC
- ✗ Thermocouple and mV Typical Accuracy: $\pm 0.1\%$
- ✗ Temperature effect: Smaller than $0.16\% / 25^\circ\text{C}$
- ✗ Working temperature: -40 to $+85^\circ\text{C}$ (-40 to 185°F)
- ✗ Sensor break detection according to NAMUR Ne43 recommendations
- ✗ Dimensions: 43.5 mm x 20.5 mm D x H
- ✗ Universal Thermocouple and RTD input
- ✗ High accuracy and temperature stability
- ✗ USB port for configuration and calibration

SPECIFICATION :

Analogue Inputs	: Thermocouple K, J, R, S, T, N, E, B, Pt100, Pt1000, NTC, 0-50mv
Analogue Output	: 4-20mA, 20mA (2 wired), linear in relation to Temperature Measurement
Power Supply	: 8 to 35V Dc, across Transmitter
Configuration	: Through Software
Resolution	: Output : 2uA
Cold Junction - Compensation	: $\leq \pm 1^\circ\text{C}$
Switch-on Delay	: $< 2.5\text{s}$, accuracy guaranteed after 15 minutes
Operating Temp.	: -40 to $+85^\circ\text{C}$
Operating RH	: 0 to 90%
Dimensions	: 43.5 x 20.5 mm
Connections	: 6 Screw Terminals (0.5Nm) on the top, sealable Micro-B USB Port
Enclosure	: ABS UL94-HB

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PROCESS CONTROL INSTRUMENTATION

CIN - U91110GJ1993PLC018831

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