

Product Data Sheet

9100D Temp Transmitter



The Model 9100D HART Temperature Transmitter is a highly accurate microprocessor-based temperature transmitter.

The 9100D accepts a wide range of inputs – RTDs, Thermocouples, Resistance and Millivolt. The 9100D is loop-powered and provides 4-20mA and HART output signals.

Configure the 9100D through HART Communications with HART Communicator or a PC and WeedComm Software.

The slim DIN rail design allows for several transmitters to be mounted in a small area

- Low cost
- 0.08% accuracy
- Full input-output isolation
- Custom input/linearization capability
- Configurable via a PC or HART Communicator
- T/C Inputs: B, C, D, R, S, E, J, K, L, N, T, U
- RTD inputs: Pt100, Pt500, Pt1000, Ni100, Ni500, Ni1000
- mV Inputs: -10 to 75mV
- Ohm Inputs: 10 to 2000 ohms
- Outputs: 2-wire, 4-20mA or 20-4mA with optional HART signal superimposed
- Immediate shipment available!

Specifications

NAME	DESCRIPTION
Input Range:	Standard: Pt100, selectable range -328 to 1562F (-200 to 850C), minimum span 18F (10C) (Optional: various RTD and TC inputs accepted)
Output:	Standard 4-20mA (Optional: 20 to 4mA) HART Signal superimposed on 4-20mA loop signal.
Zero & Span Adjustments:	Using HART Communicator or WeedComm Software can be set anywhere within sensor range. Zero and Span are non interacting.
Failsafe:	Standard: upscale @ 21.5 mA (Optional: downscale @3.6 mA)
Response Time:	1 second
Damping:	User settable from 0 to 100 seconds
Isolation:	2000 VAC, input to output
Power Supply:	11.5 to 35 VDC
Load Resistance:	$R_{Max} \text{ (ohms)} = (V_{Supply} - 11.5 \text{ VDC}) / .022A$
Accuracy:	Standard: Pt100: .36F (0.2C) or 0.08% of span (whichever is greater) (Optional: depends on input and range)
Long Term Stability:	+/-0.05% of calibrated span per year
Cold Junction Compensation:	+/-1C (measured with Pt100 IEC 751, Class B)
Temperature Limit:	-40F to 185F (-40C to 85C)

NAME	DESCRIPTION
EMI/RFI Effect:	Conforms to European Union Directives (CE Mark). Meet IEC 61326 amend 1, 1998 and NAMUR NE21.
Approvals:	Optional: Factory Mutual (FM) / Canadian Standards Association (CSA) / ATEX / Intrinsically Safe (IS)

Documents

NAME

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Instruction Manual

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Accessories

WeedComm Programming Software

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