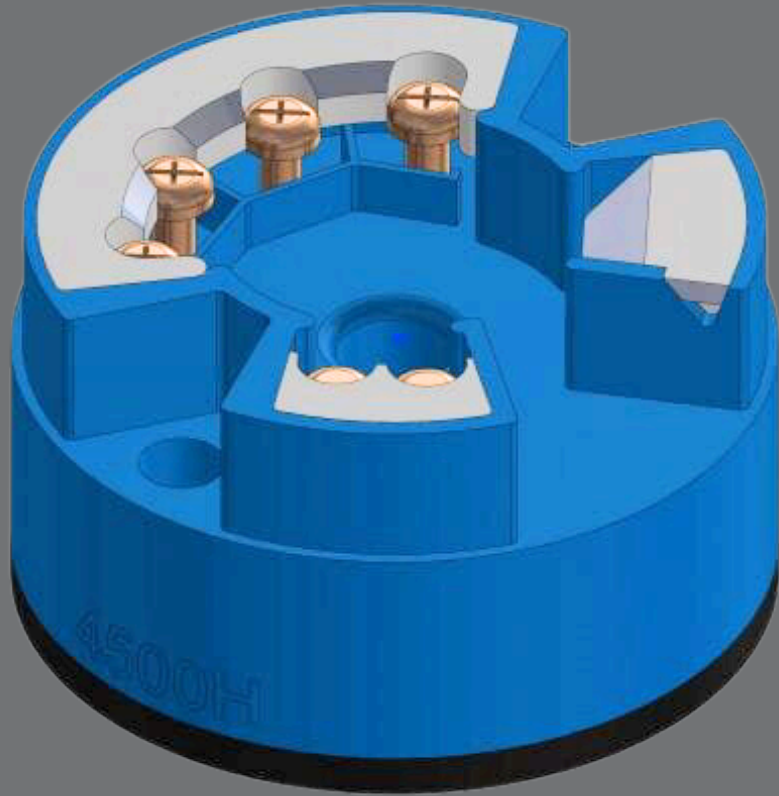


# 9100H HART temperature transmitter



## Key features

- 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
- Full instruction manual available on request

## Overview

Microprocessor-based, this a highly accurate temperature transmitter that accepts a wide range of inputs, is loop powered and provides 4-20mA output signals. Configured through a PC and software, the 7600H is a DIN Form B design for mounting in a sensor connection head. An optional digital display/meter provides local indication of the process temperature in °F or °C, 0-100% of scale or the 4-20mA output. The transmitter and display are mounted in a windowed, explosion-proof instrument enclosure and can be installed in virtually any enclosure or on a wall.

# Technical specification

| Feature                    | Description   |
|----------------------------|---|
| Input range                | Standard Pt100, selectable range -328 to 1202F (-200 to +650C), minimum span 18F (10C), with optional various RTD and TC inputs |
| Output                     | Standard 4-20mA, with optional 20 to 4mA  |
| Zero and span adjustments  | Using software provided, it can be set anywhere within sensor range. Zero and Span are non interacting.                         |
| Failsafe                   | Standard upscale, with optional downscale   |
| Response time              | 1 second  |
| Damping                    | User settable from 0 to 8 seconds   |
| Isolation                  | 3750 VAC, input to output   |
| Power supply               | 8 to 35VDC  |
| Load resistance            | $R_{Max} (ohms) = (V_{Supply} - 8VDC) / .025A$  |
| Accuracy                   | Standard Pt100: .36F (0.2C) or 0.08% of span, whichever is greater  |
| 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)  |
| EMI/RFI effect             | Conforms to EU Directives (CE Mark) and Meet IEC 61326 amend 1, 1998 and NAMUR NE21.  |

# Technical specification

| Feature    | Description  |
|------------|--|
| Approvals  | Optional Factory Mutual (FM), Canadian Standards Association (CSA) and Intrinsically Safe (IS) |
| Acessories | Programming software (0453-001-4001) and USB interface programming cable (0453-001-4005)       |

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