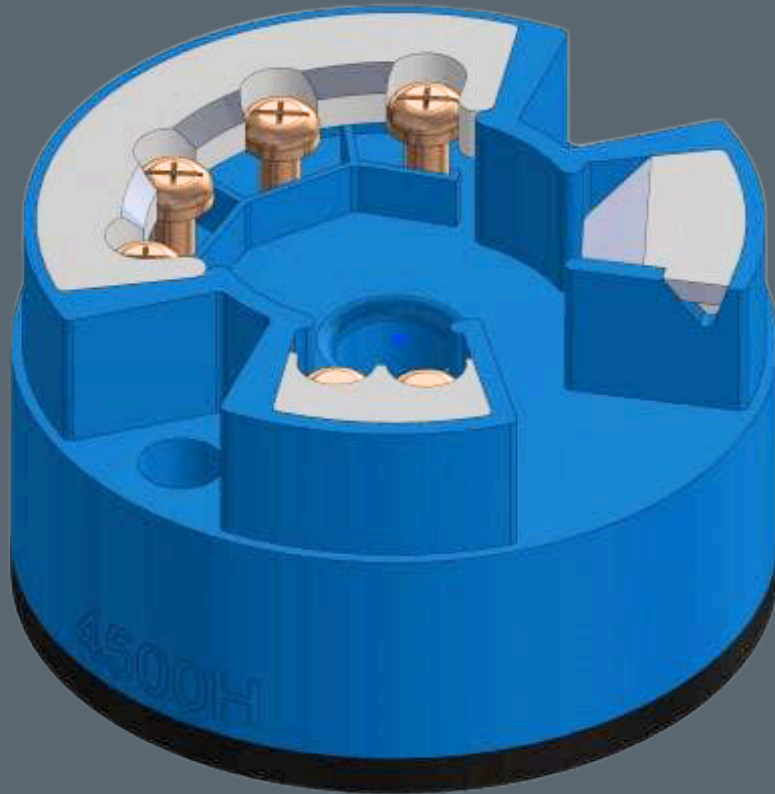


# 4500H temperature transmitter



## Overview

Microprocessor based, this sensor-mate PC programmable temperature transmitter is highly accurate. It accepts a Pt 100 RTD input, is loop-powered and provides a 4-20mA output signal. It can be mounted in virtually any enclosure or on a wall. An optional digital display provides indication of 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 enclosure.

## 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

# Technical specification

Feature	Description
Input range	Pt100, selectable range -328 to 1202F (-200 to +650C), minimum span 18F (10C)
Output	Standard 4-20mA, with option of 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 downscale option
Response time	1 second
Damping	User settable from 0 to 8 seconds
Power supply	10 to 35VDC
Load resistance	$R_{Max} \text{ (ohms)} = (V_{Supply} - 10V) / .022A$
Accuracy	For Pt100: .36F (0.2C) or 0.08% of span, whichever greater
Long term stability	+/-0.05% of calibrated span per year
Temperature limit	-40F to 185F (-40C to 85C)
EMI/RFI effect	Conforms to EU Directives (CE Mark)
Accessories	Software and USB interface programming cable

## About Ultra Energy

Organizations working with nuclear and industrial technologies must deliver reliable production at the same time as safeguarding people, the environment and infrastructure. We develop and manufacture measurement and control solutions that give our customers complete, long-term control over systems operating in harsh environments, helping them operate safely and increasing the value derived from their investments over their total lifespan.

Part of Curtiss-Wright, Ultra Energy has worked with nuclear and industrial customers for over 60 years. We support customers across the world from facilities located in the US and UK. Our solutions are embedded in strategic national infrastructure and our people are active partners in customer programs that are focused on delivering advanced future nuclear and industrial capabilities.

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