

Model 4500H Head Mount Sensor-Mate® PC Programmable RTD Temperature Transmitter



- Head Mount Design (DIN Form B)
- 0.08% Accuracy
- Pt 100 RTD Input
- Microprocessor-Based Design
- PC Configuration with WeedComm Software
- Excellent Long-term Stability
- Linearization Capabilities
- Two Year Warranty

The Model 4500H Sensor-Mate Programmable RTD Temperature Transmitter is a highly accurate, microprocessor-based temperature transmitter. The 4500H accepts a Pt 100 RTD input. The 4500H is loop-powered and provides a 4-20mA output signal. Configure the 4500H with a PC and WeedComm Software. The transmitter can also be mounted in virtually any enclosure or easily wall mounted.

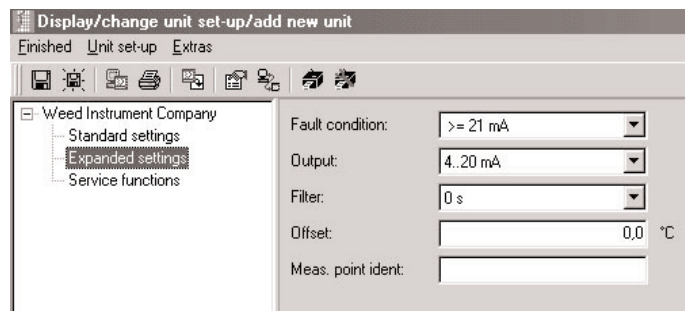
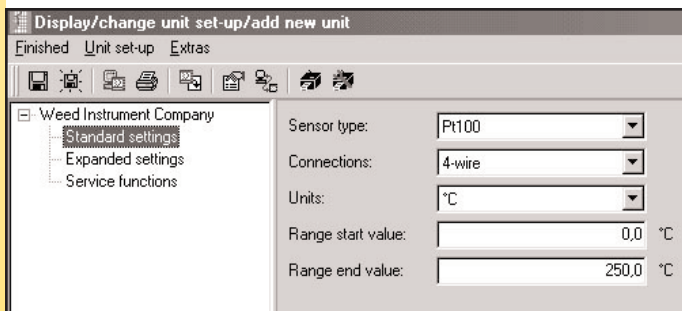


Optional Digital Display/Meter

The Weed Instrument Digital Display for the Model 4500H Temperature Transmitter 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.

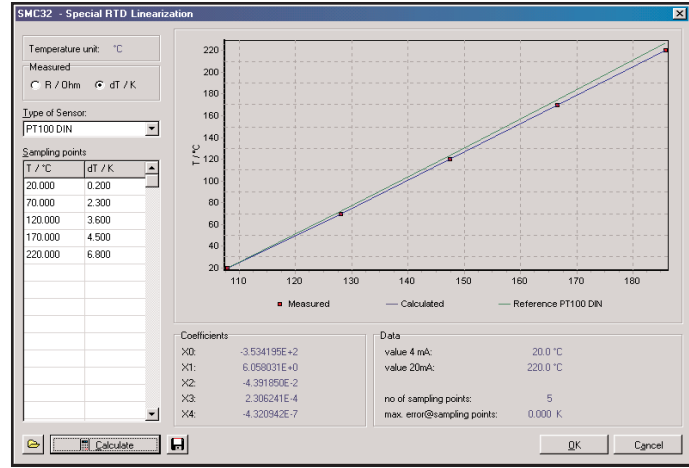
WeedComm Software

The WeedComm Software allows users to configure the 4500H transmitter using a PC and an interface cable. The software is menu driven, clear and concise. Configurations can be completed off-line, saved and loaded to the transmitter at a later time. Saved configurations can be looked up by filename. Use the WeedComm Software for Custom Linearization features.



Custom Linearization

The 4500H offers the capability of entering custom linearization for increased accuracy of the temperature measurement system. The result is a linear 4-20mA output for a platinum 100 ohm RTD.

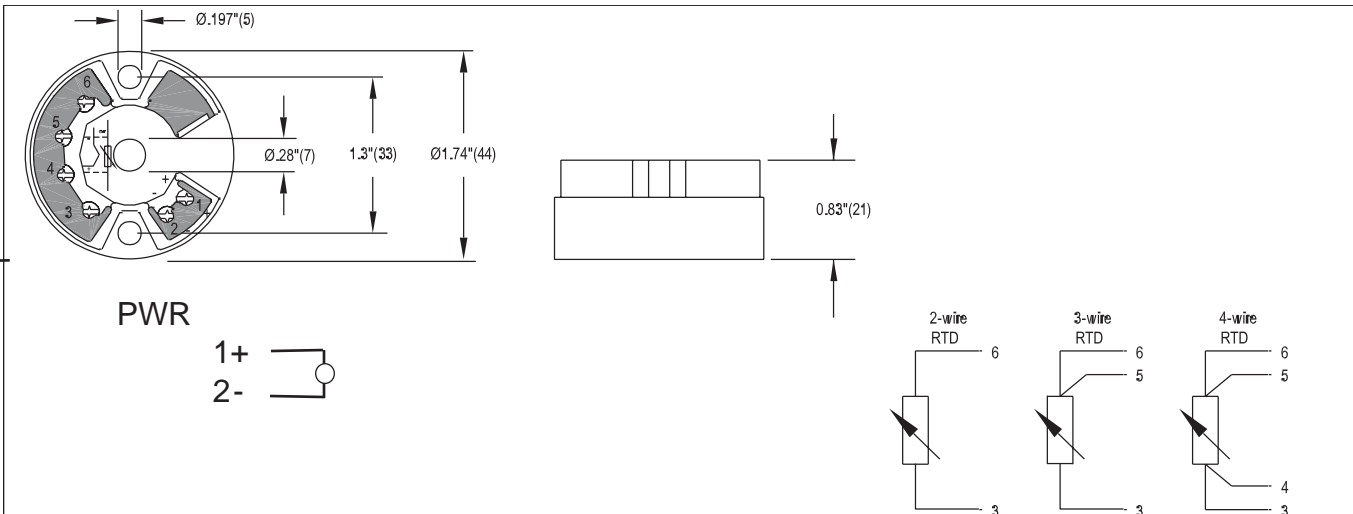


Specifications:

Input Range: Resistance Temperature Detector (RTD)			
<u>Input</u>	<u>Designation</u>	<u>Settable Range</u>	<u>Minimum Span</u>
IEC 751	Pt 100	-328 to 1562°F (-200 to 850°C)	18°F (10°C)
<ul style="list-style-type: none"> • Connection type: 2, 3 or 4 wire configuration. • Software compensation of cable resistance possible in the 2 wire system (0-20 ohms). • Sensor cable resistance max. 11 ohms per cable in the 3 and 4 wire system. • Sensor current: less than or equal to 0.6 mA 			
<u>Output</u>	4-20mA or 20-4mA.		
<u>Zero & Span Adjustments</u>	Use WeedComm Software. Can be set anywhere within sensor range under input section. Zero & Span are non interacting.		
<u>Failsafe</u>	Downscale 3.6 mA; Upscale 21.5 mA		
<u>Response Time</u>	1 second		
<u>Damping</u>	User settable from 0 to 8 seconds		
<u>Power Supply:</u>	10 to 35 VDC		
<u>Load Resistance:</u>	$R_{Max} (ohms) = (V_{Supply} - 10V) / .022A$		
<u>Accuracy:</u>	<u>Type</u>	<u>Measurement Accuracy</u>	
	Pt 100,	0.36°F (0.2°C) or 0.08% of span Whichever is greater.	
<u>Long-Term Stability</u>	±0.05% of calibrated span per year		
<u>Temperature Limit</u>	-40°F to 185°F (-40°C to 85°C)		
<u>EMI/RFI Effect</u>	Conforms to European Union Directives (CE Mark).		

Dimensions

Terminal Connections



Model	Description	
4H	Head Mount Sensor-Mate PC Programmable RTD Temperature Transmitter	
1	Code	Sensor Type - RTD
	Q	Pt 100, a = 0.00385055
	P	Programmable/Custom Configuration
2	Code	Linearization
	T	With Temperature
3	Code	Connection
	2	2-wires
	3	3-wires
	4	4-wires
4	Code	Sensor Break (Burnout)
	U	Upscale
	D	Downscale
5	Code	Temperature Sign - Lower Range (4mA)
	+	Positive
	-	Negative
6	Code	Temperature Value - Lower Range (4mA)
	050	Example: 050 = 50°, 250 = 250°
7	Code	Temperature Sign - Upper Range (20mA)
	+	Positive
	-	Negative
8	Code	Temperature Value - Upper Range (20mA)
	0300	Example: 0300 = 300°, 1000 = 1000°
9	Code	Temperature Units
	C	Degrees Centigrade
	F	Degrees Farenheit With Input
10	Code	Digital Indicator with Explosion Proof Enclosure
	21	Scale (4-20 mA)
	22	Scale (0-100%)
	23	Scale (degree F, degree C)

Order "4500/7600 Interface Cable" and "WeedComm" software as separate items.

4H	Q	T	3	U	-	050	+	0300	C
Sample Part Number									
Your Part Number									

