

Elements & Probes

Overview

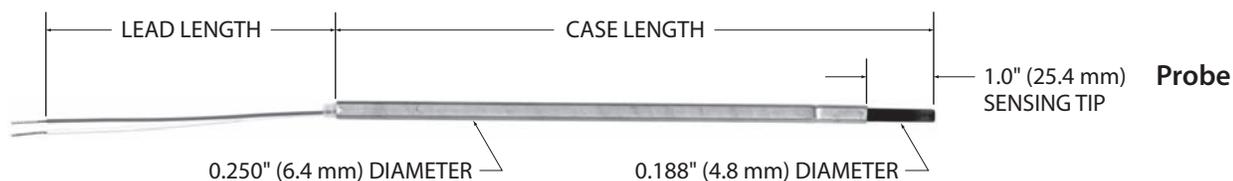
These models feature fast-responding RTD or thermistor elements in aluminum cases (except stainless steel on S482PW) with PTFE insulated leadwires. They can be assembled into probes or used separately as all-purpose sensors.

Probes consist of elements assembled into stainless steel extension tubes. They are not suitable for direct fluid immersion but may be used with thermowells. See Section 4 for thermowell options.

See Section 5 for optional 4 to 20 mA temperature transmitters.

Model numbers

Element	TCR $\Omega / \Omega / ^\circ\text{C}$	Elements	Probes
RTDs			
Platinum 100 $\Omega \pm 0.1\%$ at 0°C	0.00391	S402PB	411PB
Platinum 100 $\Omega \pm 0.1\%$ at 0°C (Meets EN60751, Class B)	0.00385	S458PD	S460PD
Platinum 1000 $\Omega \pm 0.1\%$ at 0°C	0.00385	S459PF	S461PF
Platinum 1000 $\Omega \pm 0.1\%$ at 0°C	0.00375	S482PW	S485PW
Nickel-iron 1000 $\Omega \pm 0.12\%$ at 70°F	0.00527	S400FB	S409FB
Nickel-iron 2000 $\Omega \pm 0.12\%$ at 70°F	0.00527	S401FC	S410FC
HW 3000 Ω at -30.2°C	0.00262	S100057PX	S100837PX
Thermistors			
Thermistor 2,252 $\Omega \pm 1\%$ at 25°C	29.2	TS438TA	TS440TA
Thermistor 10,000 $\Omega \pm 1\%$ at 25°C	23.5	TS439TB	TS441TB



Specifications

Temperature range: -45.5 to 135°C (-50 to 275°F).

Leadwires: AWG 22, PTFE insulated. Standard lengths are 4", 12" and 18".

Moisture resistance: Meets MIL-STD-202, Method 104, Test Condition B.

Insulation resistance: 1000 megohms min. at 500 VDC, leads to case.

Element



MODEL S482PW IS 2.4" (60.3 mm) LONG

Specification and order options:

Probes

S411PB	Model number from table
60	Case length: Specify in 0.1" increments (Ex: 60 = 6.0 inches) Minimum length is 3"
Z	Number of leads: Y = 2 leads Z = 3 leads (platinum only)
4	Lead length in inches
S411PB60Z4 = Sample part number	

Elements

S458PD	Model number from table
Z	Number of leads: Y = 2 leads Z = 3 leads (platinum only)
4	Lead length in inches
S458PDZ4 = Sample part number	



STOCKED PARTS

Case Diameter	Sensing Element	Case Material	# of Lead-wires	Lead Length	Lead Covering	Case Length	Stock Part #
Case: 0.250" (6.4mm) Tip: 0.188" (4.8mm)	PD	Aluminum	3	12.0"	PTFE	12.0"	S460PD120Z12
				24.0"	PTFE		S458PDZ24

Specify and order products at:
www.minco.com/sensors_config

Note: Available up to 10 pieces or contact Minco Customer Service

Specifications subject to change