



Handheld Temperature Probes  
Handheld Molded Handle Thermocouple and RTD Sensor Assemblies

Speed. Service. Solutions...  
Beyond Measure®

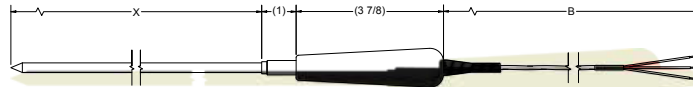
# HANDHELD TEMPERATURE PROBES



- RTD and thermocouple designs
- Ergonomic phenolic plastic handle
- Available with various accuracy parameters
- Available in a variety of sheath diameters, lengths, and materials
- Optional pointed tip for easy insertion
- Optional 45-degree and 90-degree bend options
- Various lead-wire types and termination options

# SP13 Handheld Molded Handle RTD Assemblies

The Handheld Molded Handle RTD Sensors are supplied with a phenolic plastic handle for convenient temperature measurements. This design is ideal for checking temperatures in a variety of applications or validating the accuracy of an existing sensor or process temperature. The RTD's listed on this page are supplied with a 316 stainless steel sheath and are available in various accuracies, temperature ranges, sheath diameters and lengths. The RTD's listed below can be configured to meet specific customer requirements.



## ORDER CODES

**Example Order Number:**

1-0 1-1 1-2 1-3 2-0 3-0 4-0 5-0 6-0  
**R1T185L 48 3 P - 012 - 00 - 15PH - T3072 - 2**

### 1-0 Pt100 ( $\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$ ) RTD Assemblies

CODE	TOLERANCE	TEMPERATURE RANGE
<i>SINGLE</i>		
R1T185L	Grade B	(-200 to 200°C)
R5T185L	(1/5) Class B	(-30 to 150°C)
RBF185L	Class B	(-50 to 200°C)
RAF185L	Class A	(-30 to 200°C)
R1T185H	Grad B	(-200 to 600°C)
RAT185H	Class A	(-100 to 450°C)

### 1-1 Sheath Diameters 316 SS

CODE	DIAMETERS (inches)
28	1/8
38	3/16
48	1/4
68	3/8

### 1-2 Element Connection

CODE	DESCRIPTION
2	2 wire element
3	3 wire element
4	4 wire element

### 1-3 Special Options

CODE	DESCRIPTION
P <sup>(1)</sup>	Pointed Tip

[1] Rounded tip supplied as standard

### 2-0 'X' Dimension

Insert 3 Digit Sheath Length (X dimension) in Inches.

### 3-0 Sheath Bends

CODE	DESCRIPTION
00	Straight
2_ _	Sheath Bend 45°
3_ _	Sheath Bend 90°

### 6-0 Leadwire Terminations

CODE	DESCRIPTION
2	2" split leads, 1/4" stripped
4	Standard plug
6	Miniature plug
<b>Options</b>	
MC	Mating connector option for code 4 or 6 only

### 5-0 Extension Leadwire

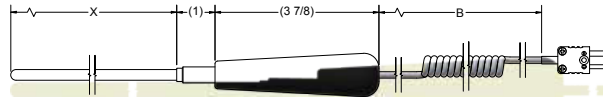
CODE	DESCRIPTION
T3	Fluoropolymer insulation - stranded conductor
T3A	Fluoropolymer insulation - stranded conductor - flexible armor
T3B	Fluoropolymer insulation - stranded conductor - stainless steel overbraid
M3	Fluoropolymer insulation - stranded conductor - stainless steel overbraid - Fluoropolymer insulation
T3M	Fluoropolymer insulation - stranded conductor - polyester shield
T3MA	Fluoropolymer insulation - stranded conductor - polyester shield - flexible armor
C3060	PVC insulation - stranded conductor - coil cord - 60" extended length
C3120	PVC insulation - stranded conductor - coil cord - 120" extended length

### 4-0 Leadwire Transitions

CODE	DESCRIPTION
15PH	Thermoset Plastic Handle with relief spring
19PH	Thermoset Plastic Handle

# SP14 Handheld Molded Handle Thermocouple Assemblies

The Handheld Molded Handle Thermocouple Sensors are supplied with a phenolic plastic handle for convenient temperature measurements. This design is ideal for checking temperatures in a variety of applications or validating the accuracy of an existing sensor or process temperature. The thermocouples listed on this page are available with 316 stainless steel or alloy 600 sheath materials in various lengths and diameters. The thermocouples listed below can be configured to meet specific customer requirements.



## ORDER CODES

**Example Order Number:** **K 4 8 G P - 012 - 00 - 19PH - C3060 - 6**

### 1-0 Thermocouple Type

CODE	
SINGLE	DUPLEX
E	EE
J	JJ
K	KK
N	NN
T	TT

### 1-1 Sheath Diameters

CODE	DIAMETERS (inches)
2	1/8
3	3/16
4	1/4
6	3/8

### 1-2 Sheath Material

CODE	MATERIAL
3 <sup>[1]</sup>	Alloy 600
8 <sup>[2]</sup>	316 SS
[1] Available in K, N	
[2] Available in E, J, K, T	

### 1-3 Measuring Junction

CODE	DESCRIPTION
G	Grounded
U	Ungrounded
E	Exposed

### 1-4 Special Options

CODE	DESCRIPTION
M	Special Limits of error
P <sup>[1]</sup>	Pointed Tip
[1] Rounded tip supplied as standard	

### 2-0 'X' Dimension

Insert 3 Digit Sheath Length (X dimension) in Inches.

### 3-0 Sheath Bends

CODE	DESCRIPTION
00	Straight
2__	Sheath Bend 45°
3__	Sheath Bend 90°

### 6-0 Leadwire Terminations

CODE	DESCRIPTION
2	2" split leads, 1/4" stripped
3	2" split leads with spade lugs
4	Standard plug
6	Miniature plug
Options	
MC	Mating connector option for code 4 or 6 only

### 5-0 Extension Leadwire

CODE	DESCRIPTION
T3	Fluoropolymer insulation - stranded conductor
T3A	Fluoropolymer insulation - stranded conductor - flexible armor
T3B	Fluoropolymer insulation - stranded conductor - stainless steel overbraid
M3	Fluoropolymer insulation - stranded conductor - stainless steel overbraid - Fluoropolymer insulation
T1M	Fluoropolymer insulation - solid conductor - polyester shield
T1MA	Fluoropolymer insulation - solid conductor - polyester shield - flexible armor
C3060	PVC insulation - stranded conductor - coil cord - 60" extended length
C3120	PVC insulation - stranded conductor - coil cord - 120" extended length

### 4-0 Leadwire Transitions

CODE	DESCRIPTION
15PH	Thermoset Plastic Handle with relief spring
19PH	Thermoset Plastic Handle

Pyromation Handheld Temperature Sensors are supplied with a phenolic plastic handle for convenient local temperature measurements. This design is ideal for checking temperatures in a variety of applications or validating the accuracy of an existing temperature sensor or process temperature. These Handheld Temperature Sensors can be configured to meet specific customer requirements.

- Made for convenient insertion into a variety of materials, fluids, gases or semi-solid substances
- Allows for independent, quick onsite temperature measurement
- Molded phenolic plastic handle designed for grip (ease of use) and control
- Easily connected to a temperature meter for onsite readings
- Great for checking existing temperature sensors/calibration readings
- Economical, reusable, easy to maintain
- Typical applications include HVAC systems, laboratories, production machines or engine fluids, gas or air monitoring, refrigeration, etc.



## // SPEED, SERVICE, SOLUTIONS... BEYOND MEASURE®

Operating since 1962, Pyromation is the premier temperature sensor manufacturer in North America. From RTDs and thermocouples to thermowells, connection heads, accessories and complete assemblies, Pyromation can make the right temperature sensor for your process and deliver it faster than anyone in the industry. A broad product line, industry experience, friendly customer service and quick delivery make Pyromation the best choice for your temperature measurement applications. For more information, please call us or visit [www.pyromation.com](http://www.pyromation.com).



5211 Industrial Road // Fort Wayne, IN 46825, USA  
260.484.2580 // [www.pyromation.com](http://www.pyromation.com)

HH-0725