

Insertion RTD probes are used to monitor internal temperatures of meat, fish, poultry, dough, and other food products, both fresh and slightly frozen varieties. Other uses include penetration of soft process materials such as rubber and plastic compounds. The materials of construction are all FDA compliant for use in sanitary applications. The sheaths are made of full hard-drawn 304SS, hypodermic tubing with a sharp needle-point insertion tip. Several varieties of handles, leadwire, and termination configurations are available. All assemblies are 3-wire construction and use a 100 ohm platinum element with a Temperature Coefficient of 0.003 85 °C⁻¹ (Class B) and are rated to 200 °C [392 °F] maximum temperature limit.

FIGURE 1

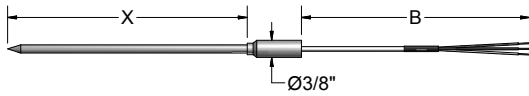


FIGURE 2

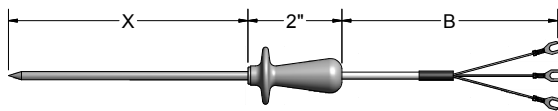


FIGURE 3

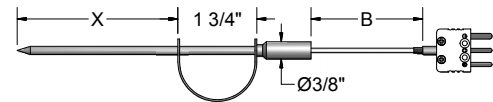
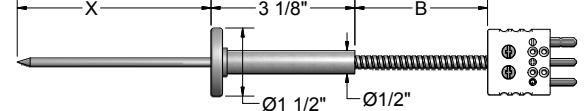


FIGURE 4



ORDER CODES

Example Order Number:

1 RBF185MH2

2 - 06

3 - T3120

4 - 4

**1 Pt100 ($\alpha = 0.003\ 85\ ^\circ\text{C}^{-1}$)
3-Wire RTD Assemblies**

CODE		NOM. SHEATH DIAMETER (inches)
SINGLE	DUPLEX	
FIGURE 1 LESS HANDLE		
RBF185LH2		0.134
RBF185LH3	RBF285LH3	0.180
FIGURE 2 MOLDED NYLON HANDLE 150 °C [302 °F]		
RBF185MH2		0.134
RBF185MH3	RBF285MH3	0.180
FIGURE 3 SABRE HANDLE		
RBF185SH2		0.134
RBF185SH3	RBF285SH3	0.180
FIGURE 4 HEAVY DUTY HANDLE		
RBF185HD2		0.134
RBF185HD3	RBF285HD3	0.180

2 Sheath 'X' Dimension

Specify "X" length in inches using 2 digits plus any fractional length. Examples: 02 = 2", 02(1/2)" = 2.5"

12" max. standard construction length.

4 Terminations

CODE	DESCRIPTION
2	2" split leads, 1/4" stripped
3	2" split leads with spade lugs
4	Standard plug
6	Miniature plug
Options	
RB	Rubber boot (2 pin plugs only)
MC	Mating connector
CG	Cord grip (1/2" NPT PVC)

3 Extension Leadwire

CODE	DESCRIPTION	TEMP RATING
T3_ _ _ [1]	Fluoropolymer Insulation - stranded conductor	200 °C [392 °F]
T3A_ _ _ [1]	Fluoropolymer Insulation - stranded conductor - flexible armor	200 °C [392 °F]
T3T_ _ _ [1]	Fluoropolymer Insulation - stranded conductor - flexible armor - FEP coated	200 °C [392 °F]
T3P_ _ _ [1]	Fluoropolymer Insulation - stranded conductor - flexible armor - PVC-coated	105 °C [221 °F]
M3_ _ _ [1]	Fluoropolymer Insulation - stranded conductor - stainless steel overbraid - FEP Insulation	200 °C [392 °F]
S3_ _ _ [1]	Fluoropolymer Insulation - stranded conductor - silicon rubber jacket	200 °C [392 °F]

[1] Insert 3 digit "B" dimension in inches.

Insertion thermocouple probes are used to monitor internal temperatures of meat, fish, poultry, dough, and other food products, both fresh and slightly frozen varieties. Other uses include penetration of soft process materials such as rubber and plastic compounds. The materials of construction are all FDA compliant for use in sanitary applications. The sheaths are made of full hard-drawn 304SS hypodermic tubing with a sharp needle-point insertion tip. Several varieties of handles, leadwire, and termination configurations are available. Probes are supplied with grounded hot junctions unless otherwise specified and are rated to 200 °C [392 °F] maximum temperature limit.

FIGURE 1

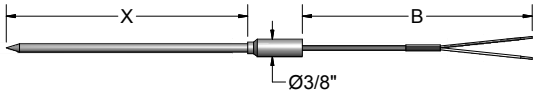


FIGURE 3

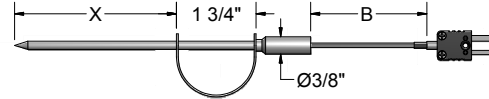


FIGURE 2

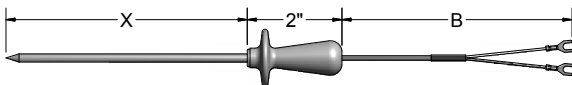
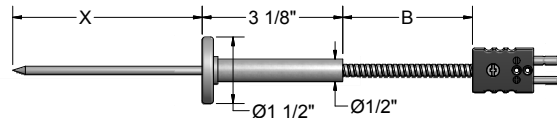


FIGURE 4



ORDER CODES

Example Order Number:

1 2 3 4
JMH2G - 06 - T3120 - 4

1 Thermocouple Type

CODE		NOM. SHEATH DIAMETER (inches)	
SINGLE	DUPLEX		
FIGURE 1 LESS HANDLE			
JLH2G		J	0.134
JLH3G	JJLH3G	J	0.180
FIGURE 2 MOLDED NYLON HANDLE 150 °C [302 °F]			
JMH2G		J	0.134
JMH3G	JJM3G	J	0.180
FIGURE 3 SABRE HANDLE			
JSH2G		J	0.134
JSH3G	JJSH3G	J	0.180
FIGURE 4 HEAVY-DUTY HANDLE			
JHD2G		J	0.134
JHD3G	JJHD3G	J	0.180
To specify other calibrations, change first digit to K or T. To specify ungrounded junctions, change last digit from G to U.			

4 Terminations

CODE	DESCRIPTION
2	2" split leads, 1/4" stripped
3	2" split leads with spade lugs
4	Standard plug
6	Miniature plug
Options	
RB	Rubber boot (2 pin plugs only)
MC	Mating connector
CG	Cord grip (1/2" NPT PVC)

3 Extension Leadwire

CODE	DESCRIPTION	TEMP RATING
T3___ ^[1]	Fluoropolymer Insulation - stranded conductor	200 °C [392 °F]
T3A___ ^[1]	Fluoropolymer Insulation - stranded conductor - flexible armor	200 °C [392 °F]
T3T___ ^[1]	Fluoropolymer Insulation - stranded conductor - flexible armor - FEP coated	200 °C [392 °F]
T3P___ ^[1]	Fluoropolymer Insulation - stranded conductor - flexible armor - PVC-coated	105 °C [221 °F]
M3___ ^{[1][2]}	Fluoropolymer Insulation - stranded conductor - stainless steel overbraid - FEP Insulation	200 °C [392 °F]
[1] Insert 3 digit "B" dimension in inches. [2] Not available with Type K.		

2 Sheath "X" Dimension

Specify "X" length in inches using 2 digits.
12" max. standard construction length.