

SPECIAL PURPOSE

PENETRATION STYLE RTD SENSORS

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The insertion type of RTD probes shown below 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 304 SS, hypodermic tubing with a sharp needle point insertion tip. Several varieties of handles, leadwire, and termination configurations are available. All leadwire options have silver plated stranded copper conductors for flexibility. All assemblies are of three wire construction and use a 100 ohm platinum element with a $\pm .12\%$ accuracy at 0°C.

Figure #1
Transition Fitting Without Handle

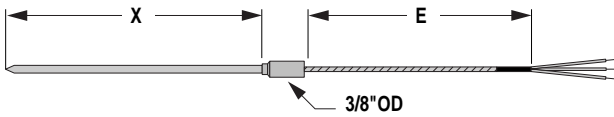


Figure #3
Sabre Handle

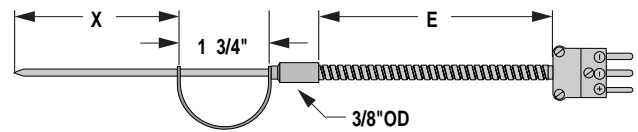


Figure #2
Molded Grey Valox Handle

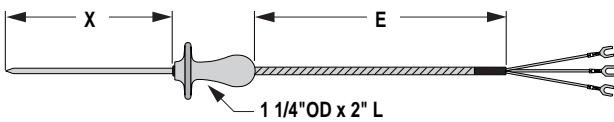
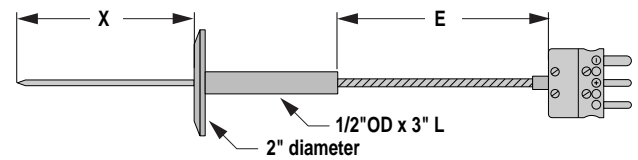


Figure #4
Heavy Duty Handle



STANDARD ASSEMBLY SPECIFICATIONS

Element:	100 ohm Platinum / $\pm .12\%$ @ 0°C	Temp. Range:	-328 to 400°F (-200 to 204°C)
Temp. Coefficient:	.00385 ohms / ohm / 0°C	Leadwire:	Stranded Silver Plated Copper Conductors, Teflon Insulated

EXAMPLE ORDER NUMBER:

1 **RBF185MH2** - **2** **06** - **3** **3T120** - **4** **4**

RTD SENSOR STYLE			
ORDER CODE		TEMP. COEF.	NOM. SHEATH DIAMETER
SINGLE	DUPLEX		
FIGURE 1 - TRANSITION FITTING LESS HANDLE			
RBF185LH2		.00385	.134" OD
RBF185LH3	RBF285LH3	.00385	.180" OD
FIGURE 2 - MOLDED VALOX HANDLE			
RBF185MH2		.00385	.134" OD
RBF185MH3	RBF285MH3	.00385	.180" OD
FIGURE 3 - SABRE HANDLE			
RBF185SH2		.00385	.134" OD
RBF185SH3	RBF285SH3	.00385	.180" OD
FIGURE 4 - HEAVY DUTY HANDLE			
RBF185HD2		.00385	.134" OD
RBF185HD3	RBF285HD3	.00385	.180" OD

TERMINATIONS	
ORDER CODE	DESCRIPTION
2	Leads stripped 2" tinned 1/2"
3	Leads stripped 2" w/spade lugs
4	Standard male RTD plug (350°F max)
4RB	Standard male RTD plug w/rubber boot (singles only)
6	Miniature male RTD plug (350°F max)

EXTENSION LEADWIRE						
ORDER CODE*	WIRE GA.		INSULATION		ARMOR	TEMP. LIMIT
	SGL	DUP	EA. COND.	OVERALL JACKET		
3 ---	24	N/A	Teflon (TFE)	Teflon (FEP)	None	400°F
3A ---	24	28	Teflon (TFE)	Teflon (FEP)	SS Flex	400°F
3T ---	24	28	Teflon (TFE)	Teflon (FEP)	Extr. Teflon over SS Flex	400°F
3P ---	24	28	Teflon (TFE)	Teflon (FEP)	Extr. PVC over SS Flex	221°F
5 ---	24	N/A	Teflon (TFE)	Teflon (FEP) SS OB, Teflon (FEP)	None	400°F
6 ---	24	N/A	Teflon (FEP)	Silicone Rubber	None	400°F

* Insert 3 digit "E" dimension in inches

SHEATH "X" DIMENSION
Specify 'X' Length in Inches Using Two (2) Digits
<i>Note: 12" max. standard construction length</i>