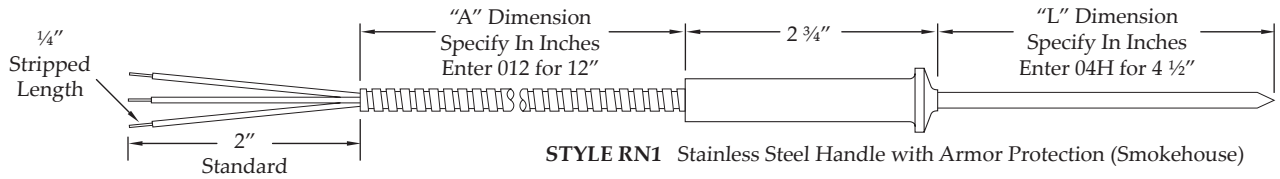
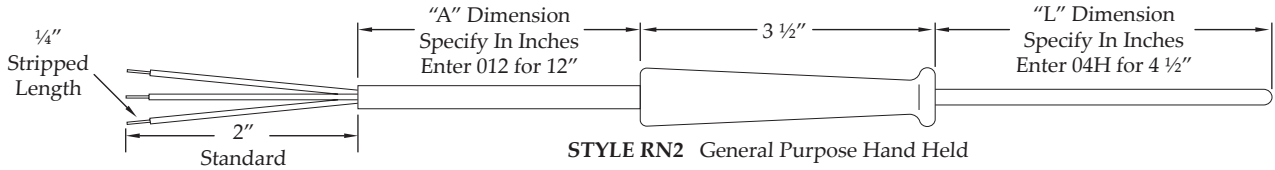


# Resistance Temperature Detectors

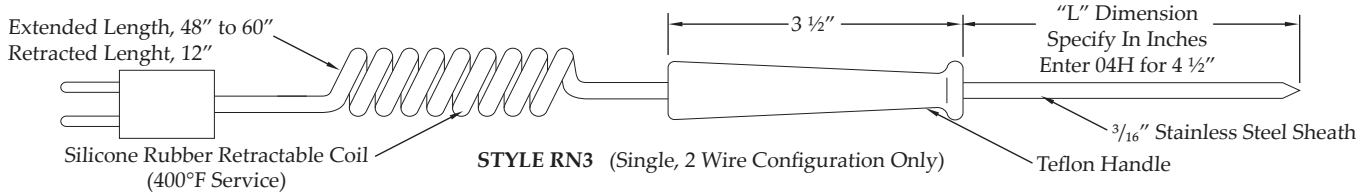
## HAND HELD RTDS



STYLE RN1 Stainless Steel Handle with Armor Protection (Smokehouse)



STYLE RN2 General Purpose Hand Held



STYLE RN3 (Single, 2 Wire Configuration Only)

Code	Table 1: Element Type
A	100 ohm .00385 Curve Class B Platinum
B	100 ohm .00385 Curve Class A Platinum
D	500 ohm .00385 Curve Class B Platinum
E	1000 ohm .00385 Curve Class B Platinum
G	100 ohm .00392 Curve Class B Platinum
J	120 ohm .00672 Curve Nickel
K	604 ohm .00520 Curve Nickel Iron

Code	Table 6: Leadwire Type
C	Fiberglass Leadwire with Stainless Steel Overbraid
J	Teflon Leadwire with Stainless Steel Overbraid
K	Teflon Leadwire with Stainless Steel Armor
M	PVC Leadwire with Mylar Shield
R	Coiled PVC Cord (Single 2 Wire Only)
S	Coiled Silicone Rubber Cord (Single 2 Wire Only)

Code	Table 2: Wiring Configuration
A	Single, 2 Wire
B	Single, 3 Wire (Minimum sheath diameter .156")
C	Single, 4 Wire (Minimum sheath diameter .188")
D	Dual, 4 Wire (Minimum sheath diameter .188")
E	Dual, 6 Wire (Minimum sheath diameter .250")

Code	Table 7: Tip Configuration
R	Round
P	Piercing
A	Air Temperature
S	Surface

Code	Table 3: Sheath Diameter
B	.125" or 1/8" O.D.
V	.156" or 5/32" O.D.
C	.188" or 3/16" O.D.
D	.250" or 1/4" O.D.

Code	Table 8: Terminations
0	2" Split Ends
1	#6 Spade Lug
2	BX Connector with #6 Spade Lug
3	Standard Plug
A	3/16" Quick Disconnect
B	3/16" Quick Disconnect, Insulated
C	1/4" Quick Disconnect
D	1/4" Quick Disconnect, Insulated
M	Mini Plug
X	Special, Specify

Code	Table 4: Sheath Length ("L" Dimension)
	Specify in inches. See table on page 4 for codes.

Code	Table 5: Lead Length ("A" Dimension)
	Specify in inches. See table on page 4 for codes.

### Part Number Sequence RN2-AB-C04P-036MRD

RN2	-	A	B	-	C	04P	-	036	M	R	D
RN1, RN2, RN3		Table 1	Table 2		Table 3	Table 4		Table 5	Table 6	Table 7	Table 8
Sensor Type & Style No.		Element Type	Wiring Configuration		Sheath Diameter	"L" Sheath Length		"A" Lead Length	Leadwire Type	Tip Configuration	Terminations

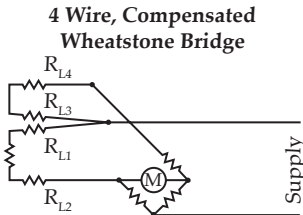
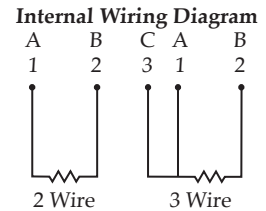
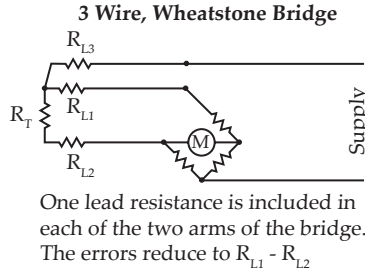
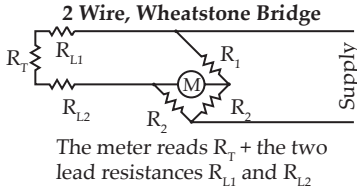
# Resistance Temperature Detectors

## SPECIFICATIONS

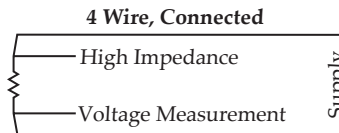
### Available RTD Elements

Code	Element Type	Temperature Coefficient	Tolerance at 0°C
A	100 ohm Platinum	.00385	.1%
B	100 ohm Platinum	.00385	.06%
C	100 ohm Platinum	.00385	.03%
D	500 ohm Platinum	.00385	.1%
E	1000 ohm Platinum	.00385	.1%
F	2000 ohm Platinum	.00385	.1%
G	100 ohm Platinum	.00392	.1%
H	100 ohm Platinum	.00392	.03%
J	120 ohm Nickel	.00672	.5%
K	604 ohm Nickel Iron	.00520	.5%

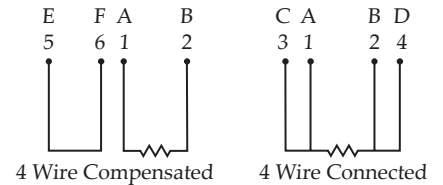
### Wiring Diagrams



In this type  $R_{L3}$  and  $R_{L4}$  appear in one arm of the bridge.  $R_{L1}$  and  $R_{L2}$  appear in the other. Errors are  $R_{L1} + R_{L2} - R_{L3} - R_{L4}$



Errors can be made negligible by having a very high input impedance amplifier.



### Code Definitions

"L" Dimensions				"B" Dimensions				"A" Dimensions		Fractional Dimension Letter Code					
"L" dimensions are specified in whole inches and a single alpha character which represents a fraction. Enter the three digit code as follows:				"B" dimensions are specified in fractions from 1/8" to 1". Use the single alpha character to indicate the tip length. Enter the code as follows:				"A" dimensions are specified in whole inches only. Enter the three digit code as follows:		1/16"	A	11/16"	L	Fraction	
										1/8"	B	3/4"	M		
3/16"	C	13/16"	N												
1/4"	D	7/8"	P												
5/16"	E	15/16"	R												
3/8"	F	1"	S												
7/16"	G	0	No												
1/2"	H														
3"	030	10 5/8"	10K	1/8"	B	5/8"	K	9"	009	7/16"	G	0	No		
4 1/2"	04H	12"	120	1/4"	D	3/4"	M	12"	012	1/2"	H				
6 1/4"	06D	15 3/8"	15F	3/8"	F	7/8"	P	36"	036	9/16"	J				
7 7/8"	07P	17 3/4"	17M	1/2"	H	1"	S	144"	144	5/8"	K				