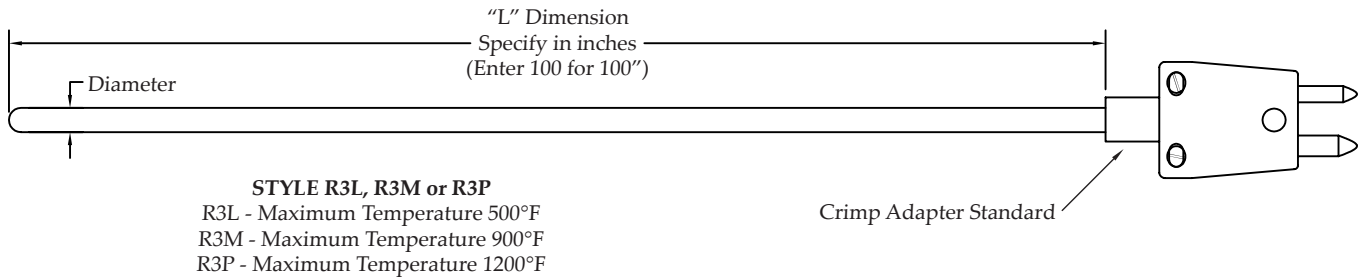




closing the loop on thermal solutions

Resistance Temperature Detectors

RTD WITH PLUG



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 (R3L Only)
K	604 ohm .00520 Curve Nickel Iron (R3L Only)

Code	Table 4: 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.
F	.375" or 3/8" O.D.

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

Code	Table 3: Sheath Material
4	304 Stainless Steel
6	316 Stainless Steel
8	Inconel 600

Code	Table 6: Terminations
5	Standard Plug with Crimp Connector
7	Standard Plug with Tube Adapter
J	Open Disk Block, Ceramic
K	Open Disk Block, Glass Fiber
M	Mini Plug with Crimp Adapter
X	Special, Specify

Part Number Sequence

R3L-BB-6F100-5

R3L - B - B - 6 - F - 100 - 5

R3L, R3M, R3P	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
Sensor Type & Style No.	Element Type	Wiring Configuration	Sheath Material	Sheath Diameter	"L" Sheath Length	Terminations

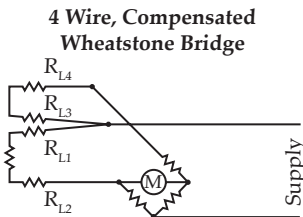
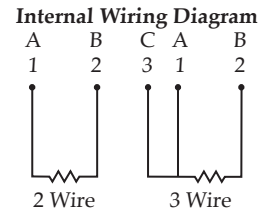
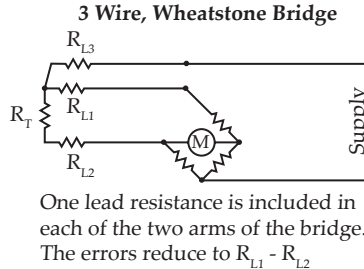
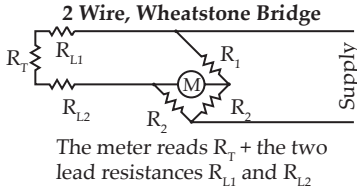
Resistance Temperature Detectors

SPECIFICATIONS

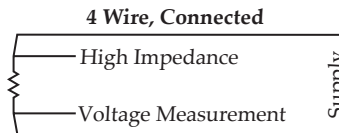
Available RTD Elements

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%

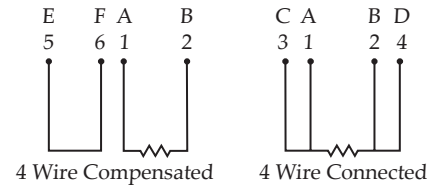
Wiring Diagrams



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				
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				