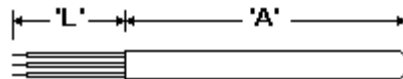


RESISTANCE TEMPERATURE DETECTORS

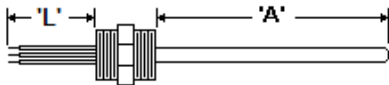
Resistance Temperature Detectors (RTD's) operate under the principle that the electrical resistance of certain metals increases or decreases in a repeatable and predictable manner with a temperature change. RTD's may have a lower temperature range than some thermocouples and a slower response time, however, they are more stable and repeatable over long periods of time. RTD's higher signal output makes them easier to interface with computers and data loggers and reduces the effects of radio frequency interference. RTD's are used in the plastic processing industry, environmental test chambers, motor windings, pumps and bearings, ovens, kilns, waste treatment and the pulp and paper industry, as well as many other applications.

Fundamental Interval $R_{100} / R_0 = 1.385$	IEC Specification 751 Temperature BS Specification 1904 Coefficient $.00385 // ^\circ\text{C}$ 99.99% Platinum	
$^\circ\text{C}$	$^\circ\text{F}$	Ohms
-100	-148	60.20
0	32	100.00
100	212	138.50
200	392	175.86
300	572	212.08
400	752	247.07
500	932	280.94

Fundamental Interval $R_{100} / R_0 = 1.3916$	SAMA Specification Temperature Coefficient $.003916 // ^\circ\text{C}$ 99.99% Platinum	
$^\circ\text{C}$	$^\circ\text{F}$	Ohms
-100	-148	59.79
0	32	100.00
100	212	139.16
200	392	177.14
300	572	213.95
400	752	249.59
500	932	284.04



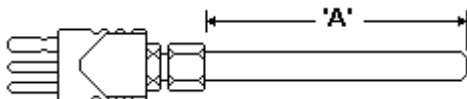
RA Design



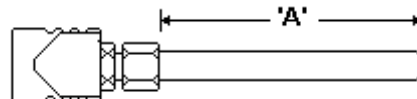
RHN Design



RPL Design



RQP Design



RQJ Design



RESISTANCE TEMPERATURE DETECTORS

RTD Ordering Information

"RA" DESIGN

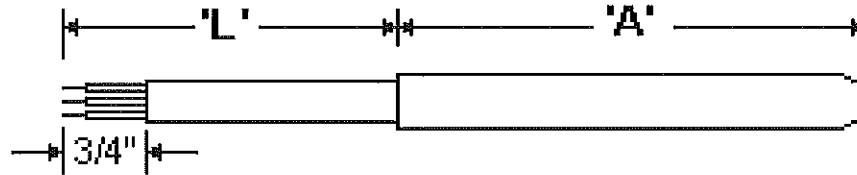


Table 1
Sheath Diameter

P/N	Description
125	.125 inches
188	.188 inches
250	.250 inches
313	.313 inches
375	.375 inches
500	.500 inches
XXX	Special

Table 2
Calibration

P/N	Description
PD	100Ω Platinum (.00385)
PS	100Ω Platinum (.00392)
PF	500Ω Platinum (.00385)
PT	1000Ω Platinum (.00385)
CU	10Ω Copper (.00427)
NI	120Ω Nickel (.00672)
XX	Special

Table 3
Sheath Material

P/N	Description
1	Alloy 600
2	304 S.S.
3	316 S.S.
4	310 S.S.
5	321 S.S.
6	446 S.S.
X	Special

Table 4
Temp. Range

P/N	Description
1	0°F-450°F
2	0°F-900°F
X	Special

Table 5
Wire Construction

P/N	Description
A	GB/GB
B	GB/GB-SS
C	TEX/TEX
D	TEX/TEX-SS
E	TEX/TW/ALM/TEX
F	TEX/GB/TEX
X	Special

Table 6
Cold End Termination

P/N	Description
A	Standard Plug
B	Hi-Temp Plug
C	Ceramic Plug
D	Miniature Plug
E	Miniature Hi-Temp Plug
F	Miniature Ceramic Plug
G	Standard Jack
H	Hi-Temp Jack
J	Ceramic Jack
K	Miniature Jack
L	Miniature Hi-Temp Jack
M	Miniature Ceramic Jack
N	Spade Lug
P	Ring Lug
R	Stripped Leads Only
X	Special

RA

Design Number Sheath Element Sheath Temp. "A" Number "L" Leadwire Cold End
Of Diameter Calibration Material Range Dimension of Dimension Construction Termination
Elements (Table 1) (Table 2) (Table 3) (Table 4) (In Inches) Conductors (In Inches) (Table 5) (Table 6)

NOTE: For any additional modifications to this assembly, add "-MOD" to the end of the part number and provide a physical description of the modification.

Example:

Single Element: RA-1-250-PD-2-2-12-3-48C-P

RA Design, single element, .250"φ, 100Ω Platinum (.00385), 304 SS sheath, 0°F-500°F temperature range, 12" active length, 3 conductors, 48" long Teflon-insulated leads, Ring Lugs.

Dual Element: RA-2-250-PD-2-2-012-3-48C-P

RA Design, dual element, .250"φ, 100Ω Platinum (.00385), 304 SS sheath, 0°F-500°F temperature range, 12" active length, 3 conductors, 48" long Teflon-insulated leads, Ring Lugs.



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RESISTANCE TEMPERATURE DETECTORS

RTD Ordering Information

“RPL” DESIGN

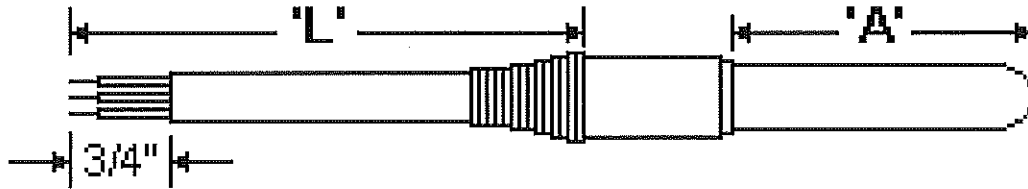


Table 1
Sheath Diameter

P/N	Description
125	.125 inches
188	.188 inches
250	.250 inches
313	.313 inches
375	.375 inches
500	.500 inches
XXX	Special

Table 2
Calibration

P/N	Description
PD	100Ω Platinum (.00385)
PS	100Ω Platinum (.00392)
PF	500Ω Platinum (.00385)
PT	1000Ω Platinum (.00385)
CU	10Ω Copper (.00427)
NI	120Ω Nickel (.00672)
XX	Special

Table 3
Sheath Material

P/N	Description
1	Alloy 600
2	304 S.S.
3	316 S.S.
4	310 S.S.
5	321 S.S.
6	446 S.S.
X	Special

Table 4
Temp. Range

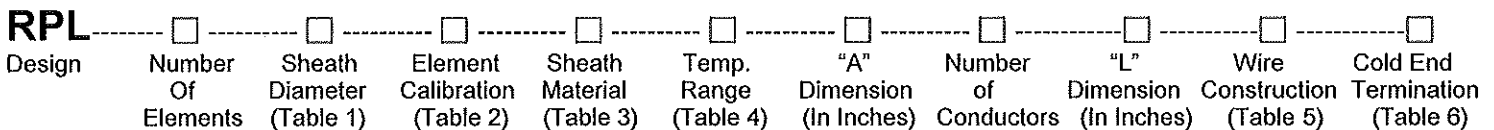
P/N	Description
1	0°F-450°F
2	0°F-900°F
X	Special

Table 5
Wire Construction

P/N	Description
A	GB/GB
B	GB/GB-SS
C	TEX/TEX
D	TEX/TEX-SS
E	TEX/TWALM/TEX
F	TEX/GB/TEX
X	Special

Table 6
Cold End Termination

P/N	Description
A	Standard Plug
B	Hi-Temp Plug
C	Ceramic Plug
D	Miniature Plug
E	Miniature Hi-Temp Plug
F	Miniature Ceramic Plug
G	Standard Jack
H	Hi-Temp Jack
J	Ceramic Jack
K	Miniature Jack
L	Miniature Hi-Temp Jack
M	Miniature Ceramic Jack
N	Spade Lug
P	Ring Lug
R	Stripped Leads Only
X	Special



NOTE: For any additional modifications to this assembly, add "-MOD" to the end of the part number and provide a physical description of the modification.

Example:

Single Element: RPL-1-250-PD-2-2-12-3-48A-P

RPL Design, single element, .250"φ, 100Ω Platinum (.00385), 304 SS sheath, 0°F-500°F temperature range, 12" active length, 3 conductors, 48" long fiberglass-insulated leads, ring lugs.

Dual Element: RPL-2-250-PD-2-2-12-3-48A-P

RPL Design, dual element, .250"φ, 100Ω Platinum (.00385), 304 SS sheath, 0°F-500°F temperature range, 12" active length, 3 conductors, 48" long fiberglass-insulated leads, ring lugs.



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RESISTANCE TEMPERATURE DETECTORS

RTD Ordering Information

"RHN" DESIGN

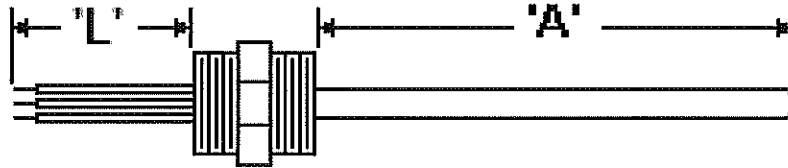


Table 1
Sheath Diameter

P/N	Description
125	.125 inches
188	.188 inches
250	.250 inches
313	.313 inches
375	.375 inches
500	.500 inches
XXX	Special

Table 2
Calibration

P/N	Description
PD	100Ω Platinum (.00385)
PS	100Ω Platinum (.00392)
PF	500Ω Platinum (.00385)
PT	1000Ω Platinum (.00385)
CU	10Ω Copper (.00427)
NI	120Ω Nickel (.00672)
XX	Special

Table 3
Sheath Material

P/N	Description
1	Alloy 600
2	304 S.S.
3	316 S.S.
4	310 S.S.
5	321 S.S.
6	446 S.S.
X	Special

Table 4
Temp. Range

P/N	Description
1	0°F-450°F
2	0°F-900°F
X	Special

Table 5
Process Fitting

P/N	Description
A	1/4" NPT
B	3/8" NPT
C	1/2" NPT
D	3/4" NPT
E	1" NPT
F	1 1/4" NPT
G	1 1/2" NPT
H	None
X	Special

Table 6
Cold End Termination

P/N	Description
A	Cast Aluminum Head
B	Miniature Aluminum Head
C	Cast Iron Head
D	Polypropylene Head
E	Miniature Plastic Head
F	Explosion Proof Head
G	Canister Style Head
H	Stripped Leads
J	Spade Lugs
K	Ring Lugs
X	Special

RHN

Design Number Sheath Element Sheath Temp. "A" Number "L" Process Cold End
 Of Diameter Calibration Material Range Dimension of Dimension Fitting Termination
 Elements (Table 1) (Table 2) (Table 3) (Table 4) (In Inches) Conductors (In Inches) (Table 5) (Table 6)

** If cold end termination eliminates leads, omit this field.

NOTE: For any additional modifications to this assembly, add "-MOD" to the end of the part number and provide a physical description of the modification.

Example:

Single Element: RHN-1-250-PD-2-2-12-3-C-A

RHN Design, single element, .250"φ, 100Ω Platinum (.00385), 304 SS sheath, 250°F-500°F temperature range, 12" active length, 3 conductors, 1/2" NPT process threads, cast aluminum head.

Dual Element: RHN-2-250-PD-2-2-12-3-C-A

RHN Design, dual element, .250"φ, 100Ω Platinum (.00385), 304 SS sheath, 250°F-500°F temperature range, 12" active length, 3 conductors, 1/2" NPT process threads, cast aluminum head.

