



# Thermal Resources Management LTD

## TEMPERATURE HOUSE

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### RTD Data Sheet - Standard 3 & 4 Wire Assembly

To order please specify the following:

1. Part reference (see example below).
2. Design lengths usually specified in mm, including immersion or route length and tail length (see illustration).
3. Tail type (see table 3).
4. Seal type (see table 4).
5. Any accessories required e.g. Termination gland as illustrated.

#### Part Reference Example:

See table 1 for cables and specifications

**P 4 D - 316L - 60**

Categorise Probe

Number of Conductors

Conductor Material

Sheath Material

Overall Cable Diameter x 10 (Metric)

Temperature °C	Class A		Class B	
	± °C	±Ω	± °C	±Ω
-200	0.55	0.24	1.3	0.56
-100	0.35	0.14	0.8	0.32
0	0.15	0.06	0.3	0.12
100	0.35	0.13	0.8	0.30
200	0.55	0.20	1.3	0.48
300	0.75	0.27	1.8	0.64
400	0.95	0.33	2.3	0.79
500	1.15	0.38	2.8	0.93
600	1.35	0.43	3.3	1.06
650	1.45	0.46	3.6	1.13
700	-	-	3.8	1.17
800	-	-	4.3	1.28
850	-	-	4.6	1.34

Sheath Material	Conductor Material	RTD Category	Cable Diameter	Tolerance Class
C = Copper D = Cupro Nickel T = 316L S = 321	C = Copper D = Nickel R = Nickel-Chrome	R = Premium Grade T = Commercial Grade	4.5mm (45) 6.0mm (60)	A = Class A B = Class B

Type	Configuration	Colour Code
PTFE Insulated Flexible	3 Wire	2 Red & 1 White
	4 Wire	2 Red & 2 White
PTFE Insulated Solid	3 Wire	2 Red & 1 White
	4 Wire	2 Red & 2 White
	3 Wire & Earth tail	2 Red, 1 White & 1 Green/Yellow

Fitting	Type	Tail Type
Crimp	Plain	3 Wire flexible
	Plain	4 Wire flexible
Silver Solder	Plain	3 Wire solid
		4 Wire solid
	Earth Tail	3 Wire & Earth tail solid

Reference	Material	Tail Type
TGMV 45 16	Brass	16mm ISO Metric
TGMV 60 16		
TGMV 45 20		
TGMV 60 20		
TGMVS 45 16	Stainless Steel	16mm ISO Metric
TGMVS 60 16		
TGMVS 45 20		
TGMVS 60 20		

Pressure entry fittings e.g. BSPT are also available on request

Notes.

RTD probes manufactured to IEC751.

Tolerance classes are to BS1904:1984-IEC751:1983.

Minimum immersion length = 100mm.

Standard tail length = 150mm

Maximum operating temperature = 550°C

Minimum operating temperature: Grade A = -196°C  
Grade B = 0°C

