



Thermon
South Africa (Pty) Ltd.



Temperature Sensors

for general industry

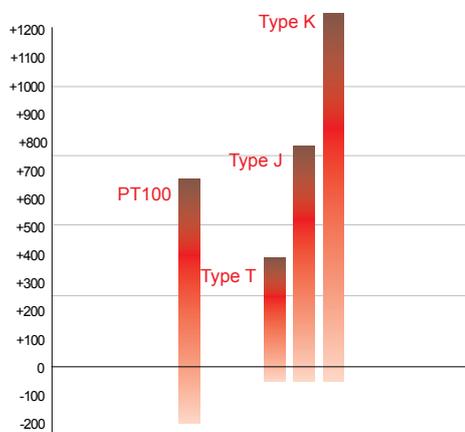
Thermon SA manufactures a wide range of temperature sensors. Materials and construction are carefully designed to match the requirements of the various industries.

Recognising the cost of downtime, we provide a "SOS" service, manufacturing replacement sensors within a few hours after receipt of order.

We offer mineral insulated thermocouples as small as 0.5mm in diameter and Pt100 sensors down to 1.6mm diameter. Drawings and product codes of frequently used sensors have been compiled on the following pages



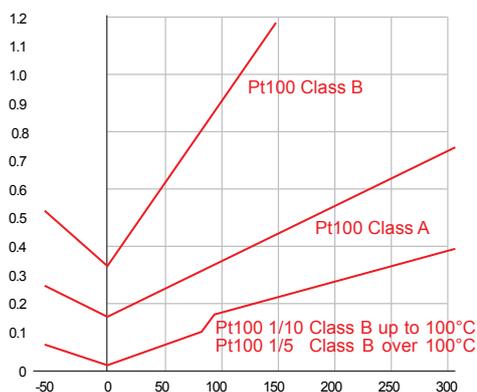
Temperature Range of Sensors



Operating temperature limit of cables:

PVC insulated cable:	-40°C +100°C
Teflon insulated cable:	-250°C +250°C
Glass fibre insulated cable:	-40°C +350°C
Mineral insulation sheath:	up to 1100°C (can be higher using special alloys)

Accuracy of Pt100 sensors



Accuracy of thermocouples



Order code

US

Construction
Sensor specification
Special requirements

L= mm
Stem length

D= mm
Stem diameter

T= mm
Cable length

Body	
Wire, fused one end	O
Air tube	A
Two-sectional stem	B
Two-sectional ceramic	C
Bare stem	T
Stem with reduced tip	R
Two-sectional, L-shaped	D
L-shaped	L
Plate (surface probe)	F
Stud (rigid)	S
Ceramic insert	I
Swivel-stud	W
Angle head	E
Pocket with insert	Z
Other (specify)	X

Termination	
Plain	P
Crimped cable	C
Cable Stress relief spring	R
Nylon head (HN)	N
Small Alu-head (KS)	S
Large Alu-head (KN)	L
Large Alu-head clip cap (DANA)	Q
Rubber sleeve & Cable	O
Potseal	A
Other (specify)	X

Mounting	
Plain, no fitting	1
Spring & bayonet fitting	2
1/4" BSPT	6
1/2" BSPT	8
Flat Bracket	9
1/4" BSW	A
M6 x 1	B
M8 x 1.25	C
M10 x 1	D
M12 x 1.75	E
Pipe clamp (specify diameter)	P
Other (specify)	X

Option	
G	Grounded T/C
U	Ungrounded T/C
E	Exposed T/C
B	Grade "B" RTD
A	Grade "A" RTD
C	1/5 DIN
D	1/10 DIN
X	Other (specify)

Thermocouples are normally non-insulated ("grounded") unless specified otherwise

Temperature	
0	-100°C to 50°C
1	-20°C to 150°C
2	0°C to 260°C
4	0°C to 400°C
8	0°C to 800°C
A	0°C to 1100°C
B	0°C to 1300°C
C	0°C to 1500°C

Configuration	
S	Simplex T/C (3 wire RTD)
D	Duplex T/C (2x3 wire RTD)
T	Triplex T/C (3x2 wire RTD)
A	4 wire simplex RTD
B	2 x 2 wire RTD / Duplex
X	Other (specify)

Sensor		
T	Cu-CuNi	-40°C to +300°C
K	NiCr-NiAl	-40°C to +1100°C
J	Fe-CuNi	-40°C to +700°C
R	Pt-13% Rh	0°C to +1550°C
S	Pt-10% Rh	0°C to +1550°C
P	Pt 100	-100°C to +400°C
A	Pt1000	-100°C to +400°C
X	Other	

Option			
Plain	O	Nylon conn. block	N
PVC cable (100°C)	P	Ceramic conn. block (large)	L
Teflon cable (250°C)	T	Ceramic conn. block (small)	C
Fibreglass cable (350°C)	G	Spring loaded conn. block	Y
S/st braided cable / Fibreglass (350°C)	S	4-20mA transducer	A
Silicone rubber cable	Q	Miniature plug (UM 10)	1
Teflon cable with sprague tubing	U	Standard plug (UM 30)	3
		Other (specify)	X

For selection and ordering

Drawings and product codes of frequently used temperature sensors have been compiled on the following pages for ease of selection and ordering. In addition, Thermon SA offers mineral-insulated thermocouples in diameters down to 0,5 mm and Pt 100 sensors down to 1,6 mm.

Ordering: Please indicate the appropriate stock code when ordering. Sensors are supplied with a label attached, stating the part number, batch reference and sensor code.

Thermon SA manufactures all types of temperature sensors to customers specifications. Please contact us with your requirements if none of the standard sensors fit your application.

