

TCA RTD SENSORS

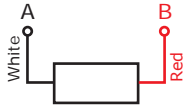
Resistance Temperature Detectors (RTD) offer the highest standard of accuracy and stability of any temperature sensor over the range -200 to 650 °C . The standard type used is Platinum PT 100 ohm with PT 500 and PT 1000 Ohm sensors available for special purpose use.

Standard PT100 Ω @ 0°C As per DIN 43760, IEC 60751 Alpha Value 0.003850. This is the nominal value of Resistance at 0 Deg C and the elements are available in different tolerances.

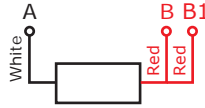
Class B = +/- 0.3 °C @ 0 °C ; Class A = +/- 0.15 °C @ 0 °C ; 1/10th DIN = +/- 0.03 °C @ 0 °C.

Wiring details

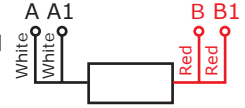
2 wire Connection
No compensation for lead wire resistance



3 wire Connection
Compensation for lead wire resistance using B Legs



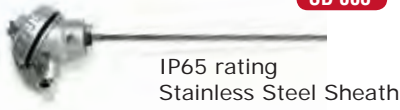
4 wire Connection
Compensation for total lead wire resistance using A & B Legs



TCA STOCK RTD SENSORS

Small Aluminium Head

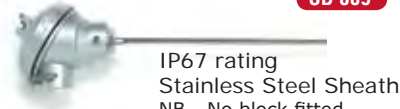
Model TC01
SD 003



IP65 rating
Stainless Steel Sheath

Large Aluminium Head

Model TC06
SD 009



IP67 rating
Stainless Steel Sheath
NB - No block fitted

RTD SENSORS

MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC01P010060	RTD PT100	6.0	100	\$
TC01P015060	RTD PT100	6.0	150	\$
TC01P020060	RTD PT100	6.0	200	\$
TC01P030060	RTD PT100	6.0	300	\$
TC06P0150NB	RTD PT100	6.0	150	\$
TC06P0300NB	RTD PT100	6.0	300	\$

RTD - Flexible Teflon Tails

Model TC02
SD 145



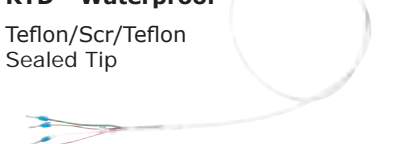
2000mm
Teflon tails

RTD SENSORS

MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC02P015045	RTD PT100	4.5	150	\$
TC02P015060	RTD PT100	6.0	150	\$

RTD - Waterproof

Model TC76P
SD 129



Teflon/Scr/Teflon
Sealed Tip

MODEL	CALIBRATION	CABLE	LENGTH mm	PRICE
TC76P2000	RTD PT100	TEFLON	2M	\$
TC76P5000	RTD PT100	TEFLON	5M	\$
TCPSURFACE2	RTD PT100	TEFLON	2M	\$
TCPSURFACE5	RTD PT100	TEFLON	5M	\$

RTD Flexible Surface Pad

Model TCP5
SD 125



Room Air Sensor

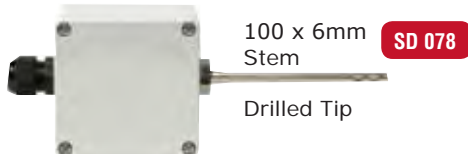
SD 126

RTD PT100
Surface Mount (Will accept Head Mounted Transmitter at extra cost)

MODEL	TC11PDOM	PRICE	\$

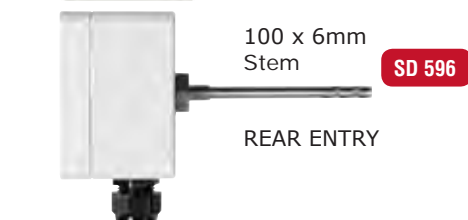
RTD Industrial Air Sensor

(Will accept Head Mounted Transmitter at extra cost)



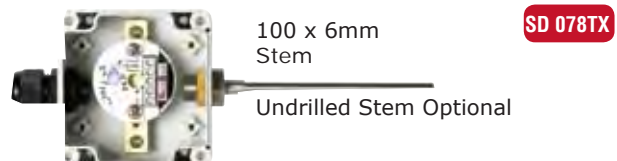
100 x 6mm
Stem SD 078

Drilled Tip



100 x 6mm
Stem SD 596

REAR ENTRY



100 x 6mm
Stem SD 078TX

Undrilled Stem Optional

MODEL	DESCRIPTION	PRICE
TC11PIND	DRILLED TIP	\$
TC11PINDRE	REAR ENTRY DRILLED TIP	\$
TC11PINDNH	UNDRILLED TIP	\$
TC11PINDRENH	REAR ENTRY UNDRILLED	\$

TEGO RANGE



Plug in Temperature Sensors

A range of temperature sensors that can be plugged in using off the shelf DIN style connectors, a 2 wire transmitter can be incorporated into the main body eliminating the requirement for a terminal head. This transmitter or plug assembly can suit most temperature probes manufactured by Temperature Controls.



Transmitter Features

- Universal Input Thermocouple and RTD
- (programmable via Hart Modem)
- 4–20mA Non Isolated Output



SD 689

Display Features

- This module can be fitted into a Temperature Sensor Body and a DIN 43650 Hirschmann style Connector Fitted.
- Self Powered from Current Loop
- Easy push button programming for span, zero and decimal point functions
- IP 65 Protection
- Display can be rotated in 90 Degree steps



Model No	DESCRIPTION	PRICE
TCBTM101	TRANSMITTER 2 WIRE MODULE ONLY	\$
TCHIRSCHFREFEPLUG	HIRSCHMANN PLUG 4 PIN RIGHT ANGLE	\$
TCLEDDIN	DIN PLUG LED DISPLAY 4–20 mA	\$

Pricing on complete assemblies available on request.

TCA DAIRY & PHARMACEUTICAL SENSORS

Assemblies with Triclover or BSM connections for Sanitary or CIP applications.

Temperature Controls offer a range of made to order RTD temperature assemblies hygienic / CIP applications (clean in process) in pharmaceutical, chemical and food or beverage processing plants.

These sensors can feature a reduced tip to provide fast response and a heavy duty support tube to ensure the terminal head is secure, making them suitable for use in high vibration or hostile locations. The Triclover or BSM caps are welded both sides to 316 Stainless Steel bar or tube and are machined / polished to a finish that exceeds the minimum 0.4 um surface finish required.

Optional Electro polish available at extra cost.

The wetted process surfaces are free of pits, crevices and weld pockets to prevent corrosion and bacteria growth.

Standard Construction:

PT100Ω @ 0°C As per DIN43760,

IEC60751 Alpha Value 0.003850

Class A tolerance 3 Wire

Terminal heads available include

Stainless Steel

Reinforced Bakelite

Polypropylene

SD 041

SD 044

All suitable to provide excellent resistance to acids, alkalines and moisture penetration.



Triclover Blank Cap



BSM Blank Cap

