

## INDUSTRIAL & GENERAL PURPOSE TEMPERATURE SENSORS

### GENERAL DESCRIPTION

SK Environmental supply two types of temperature sensor, both built and function in compliance with the highest possible standards.

The thermocouple assembly consists of the thermocouple wires with insulators, one or more protecting sheaths and a terminating head which contains a connection block. All assembly welding is accomplished by Argon Arc and the bosses of all stainless steel sheathed thermocouples are pressure tested to 500 p.s.i air in water. SK Environmental can supply the necessary compensating cables for use with Iron Constanton Thermocouples.

Industrial Resistance Thermometer Assemblies are supplied complete with a diecast aluminium weatherproof head and are available for either 2, 3, or 4 wire connection. The inside air temperature sensor is supplied in a decorative wall mounting enclosure and the outside air Resistance temperature sensor comes complete with wall mounting attachment, conduit entry and sun shield. SK Environmental also offer matched resistance thermometers primarily intended for use with heat metering equipment.

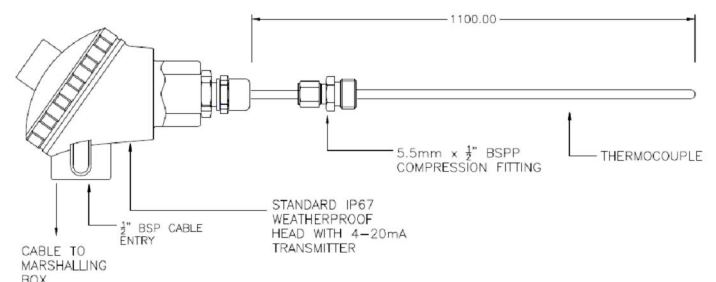
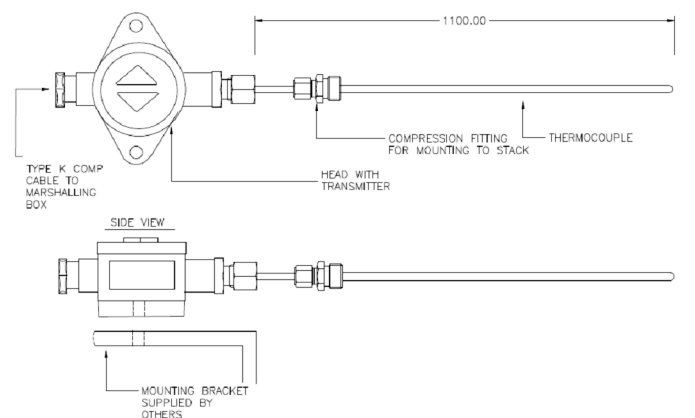
- ✱ All devices conform to their appropriate British Standard.
- ✱ Fast response time.
- ✱ Exceptionally rugged.
- ✱ Thermocouples welded by Argon Arc.
- ✱ Stainless steel sheathed thermocouples tested to 500 p.s.i. air in water.

Different assemblies other than those shown overleaf are available to special order.

Contact SK Environmental Sales Department with your requirements if our standard items are not suitable.



Typical Customised Thermocouples



# THERMOCOUPLES

Ordering information and Model Code

T/C 1

Key Model Code \_\_\_\_\_

Code	Description
T/C 1	Single Boiler Exit Thermocouple Iron / Constanton or T1/T2 16 SWG element in mild steel 5/8" OD sheath for up to 15" (380mm) immersion fitted with 3/4" BSP Boss. Temperature rated up to approximately 600°C.
T/C 2	Single Boiler Exit Thermocouple Iron / Constanton or T1/T2 16 SWG element in mild steel 5/8" OD sheath for up to 30" (760mm) immersion fitted with 3/4" BSP Boss. Temperature rated up to approximately 600°C.
T/C 3	Duplex Boiler Exit Thermocouple having two Iron / Constanton or T1/T2 elements in mild steel 5/8" OD sheath for up to 15" (380mm) immersion fitted with 3/4" BSP Boss. Temperature rated up to approximately 600°C.
T/C 4	Duplex Boiler Exit Thermocouple having two Iron / Constanton or T1/T2 16 SWG elements in mild steel 5/8" OD sheath for up to 30" (760mm) immersion fitted with 3/4" BSP Boss. Temperature rated up to approximately 600°C.
T/C 5	Single Combustion Chamber Thermocouples T1/T2 10 SWG elements inconel 1" OD sheath for up to 36" (910mm) immersion fitted with 5" diameter drilled flange. Temperature rated up to approximately 1100°C.
T/C 6	Single Thermocouple, Mullite element in St.St. sheath, housed in alluminous porcelain sheath, fitted with 4" diameter adjustable flange, length below head 26". Temperature rated up to approximately 1500°C.

# RESISTANCE THERMOMETERS

Ordering information and Model Code

RT 1 - M

Key Model Code \_\_\_\_\_  
Table 1 \_\_\_\_\_

Code	Description
RT 1	Resistance Thermometer Sensor: Platinum 100 ohm in 1/4" OD (6mm) stainless steel sheath fitted with stainless steel 316 pocket 9mm OD having 3/4" BSP screwed male boss fitting and weatherproof connection head for 3" (76mm) extension length.
RT 2	Resistance Thermometer Sensor: as above for 6" (152mm) immersion length and 3" (76mm) extension length.
RT 3	Outside Air Temperature Resistance Thermometer Sensor: Platinum 100R in 1/4" OD (6mm) stainless steel sheath fitted with sun shield weatherproof head and wall mounting conduit box.
RT 4	Inside Air Room Temperature Resistance Thermometer Sensor: Platinum 100R in decorative wall mounting case assembly.

**TABLE 1 - MATCHED THERMOMETERS FOR HEATMETER APPLICATIONS**

Code	Description
M	Two matched Resistance Thermometers. Matched to within 0.05 Ohm for heatmetering applications

SK Environmental Limited reserve the right to change the specification without prior notice.



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