ITT Series
Programmable Temperature Probes - Thermocouple and PT100 Assemblies



- ***K or J Type Thermocouples***
- ***Pt100 RTD Sensors***
- ***4-20mA linearised output, configurable to application specific temperature range***
- ***6mm stainless steel sheath***

These temperature probe assemblies are all constructed using a stainless steel sheath containing either a J or K type thermocouple or a P100 RTD sensor element.

The aluminium head contains a programmable 4-20mA transmitter which, although pre-programmed for the standard temperature range of the sensor can be changed by the user* so that the 4-20mA output corresponds to any temperature range within the sensors' capabilities.

A wide range of accessories can be chosen, from plastic and metal cable glands to compression fittings and stainless steel pockets (not supplied).

Please contact our sales department with details of the probe you are looking for and we will give you a very competitive quotation.

*Requires free software download and ICAB-1 cable

Transmitter Technical Specification

Power Supply	12-35 Vdc 2-wire system
Output	4-20mA
Output Load R_L	500Ω maximum, typically 250Ω
Typical Accuracy	RTD overall 0.1%, thermocouple overall 0.2%
Temperature Drift	≤ 25 ppm/ °C FS
Op. /Ambient Temp	-20 to +50 °C
Storage Temp	-40 to 120 °C

Temperature Sensor Style

The standard sensor type is shown in the diagram below.
Standard products are factory configured as below:-

J-Type 0 to 1200°C = 4-20mA
K-Type 0 to 1350°C = 4-20mA
RTD type -200 to + +850°C = 4-20mA.

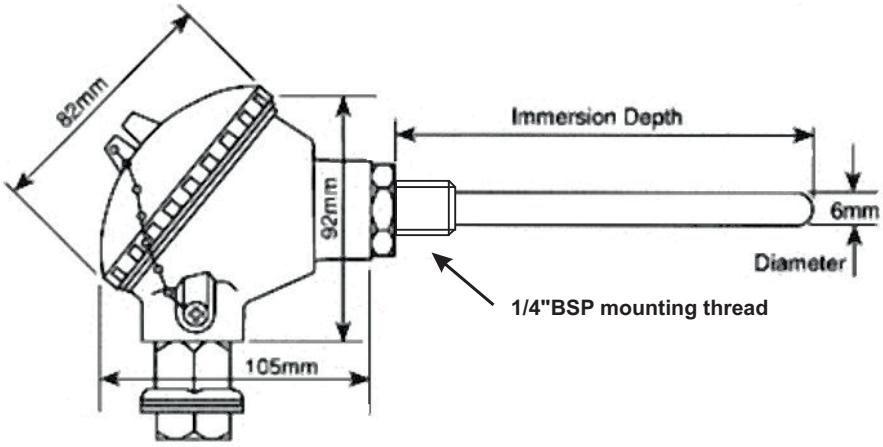
A free software download is available from the Cynergy3 website which enables the scaling of the 4-20mA output to be customised to suit your specific application*.

The sheath length ranges from 100mm to 400mm for the PT100 sensor version and from 150mm to 400mm for the thermocouple sensor version. This style of thermocouple allows any standard 6mm compression fitting to be used, making it easy to fit the sensors to any process connection. The head mounting thread is 1/4"BSP.

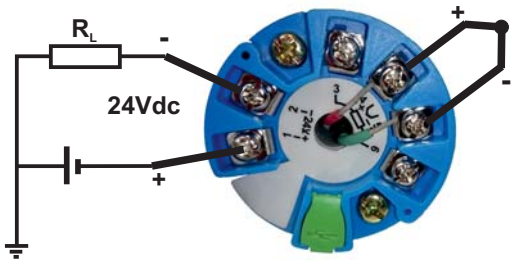
*Requires ICAB-1 USB to serial converter programmingcable

Connection Head

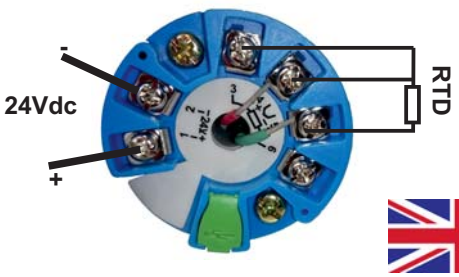
The dimensions of the standard aluminium connection head are shown below:



Part No.	Description		Part No.	Description
ITTP100A	PT100 6x100mm 4-20mA		ITTJ200A	J type 6x200mm 4-20mA
ITTP150A	PT100 6x150mm 4-20mA		ITTJ300A	J type 6x300mm 4-20mA
ITTP200A	PT100 6x200mm 4-20mA		ITTJ400A	J type 6x400mm 4-20mA
ITTP250A	PT100 6x250mm 4-20mA		ITTK150A	K type 6x150mm 4-20mA
ITTP300A	PT100 6x300mm 4-20mA		ITTK200A	K type 6x200mm 4-20mA
ITTP400A	PT100 6x400mm 4-20mA		ITTK300A	K type 6x300mm 4-20mA
			ITTK400A	K type 6x400mm 4-20mA



THERMOCOUPLE



RTD 3-WIRE

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