

ITTU 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**

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.

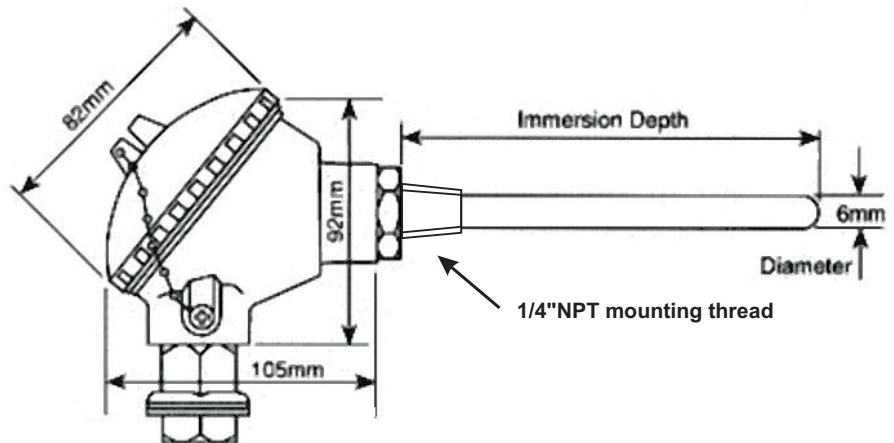
A free software download is available from the Cynergy3 website which enables the scaling of the 4-20mA output to be customised to suit your specific application*.

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"NPT.

*Requires ICAB-1 USB to serial converter programming cable

Connection Head

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



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.

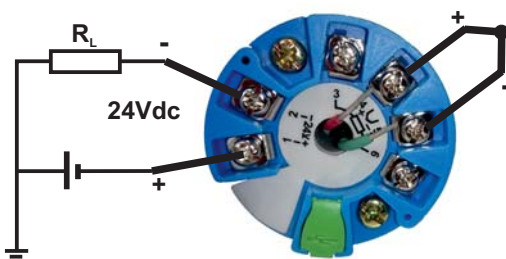
*Requires fee software download and ICAB-1 cable

Transmitter Technical Specification

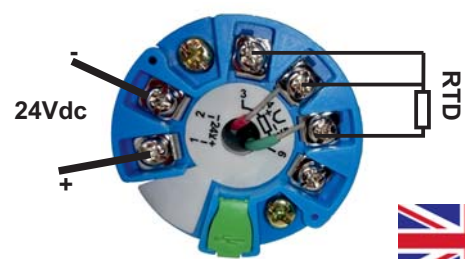
Power Supply	12-35 Vdc 2-wire system
Output	4-20mA
Output Load R_L	500 Ω maximum, typically 250 Ω
Typical Accuracy	RTD overall 0.1%, thermocouple overall 0.2%
Temperature Drift	≤ 25 ppm/°C FS
Operating Temp	-30 to +80 °C
Storage Temp	-40 to 120 °C

Part No.	Description	Part No.	Description
ITTUP100A	PT100 6x100mm 4-20mA	ITTUJ200A	J type 6x200mm 4-20mA
ITTUP150A	PT100 6x150mm 4-20mA	ITTUJ300A	J type 6x300mm 4-20mA
ITTUP200A	PT100 6x200mm 4-20mA	ITTUJ400A	J type 6x400mm 4-20mA
ITTUP250A	PT100 6x250mm 4-20mA	ITTUK150A	K type 6x150mm 4-20mA
ITTUP300A	PT100 6x300mm 4-20mA	ITTUK200A	K type 6x200mm 4-20mA
ITTUP400A	PT100 6x400mm 4-20mA	ITTUK300A	K type 6x300mm 4-20mA
		ITTUK400A	K type 6x400mm 4-20mA

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THERMOCOUPLE



RTD 3-WIRE



Made in the UK

www.cynergy3.com

ISO9001 CERTIFIED

ITTU 2017