

**MODELS:**

- ITI4001: Direct Immersion with 1/2" BSPT Thread
- ITI4002: Direct Immersion Plain
- ITI410x: Custom Made #

**ITI4x0x****Immersion Temperature Detectors****Specifications****Operating Voltage**

- 12 V to 30 V DC 35 V DC Max

**Operating Mode**

- Two wire current loop

**Calibration**

- Within  $\pm 0.25^\circ\text{C}$  of reference at  $24^\circ\text{C}$

**Temperature Ratings**

- Storage: -10 to 100°C
- Operating: -10 to 100°C

**Enclosure**

- Seamless Copper Tube
- 1/2" BSPT Brass Plug (ITI4001 only)
- To ensure that the electronics in the detector are protected from moisture they are encapsulated in epoxy

**Connection**

- 2 core cable 1 metre long

**Manufacturing Option**

- The length of the stem on the ITI can be supplied to customer requirements up to a maximum length of 400mm
- 2 core cable, length made to order

**Installation****ITI4001**

This is a direct immersion detector which is screwed into a 1/2 inch BSPT socket in the water pipe system without the use of a well.

**ITI4002**

This detector can be fitted into a well. Thermal conductive paste should be used for maximum conductivity.

The ITI detectors can also be used in ductwork where high levels of condensation or corrosive substances are present.

**Warning**

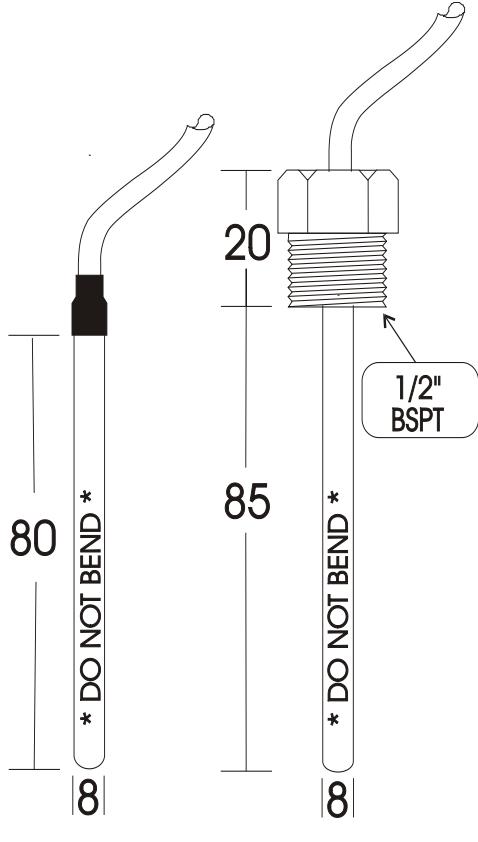
DO NOT attempt to bend the detector enclosure as this will result in failure of the device.

**Wiring**

For most installations twisted pair cable will be adequate provided that it is not run in the same conduit as power cables.

It is good practice to maintain at least 50 millimetres clearance between detector wiring and power wiring.

Shielded cable should be used where there are high levels of EMI (electro magnetic interference). This shield should remain continuous from the detector to terminal 9 of the controller.

**ITI4002****ITI4001****Applications**

The Innotech range of immersion current loop temperature detectors are designed for use with Innotech ITC, IPC, IMC, IDC and IDS5212 range of temperature controllers.

**Features**

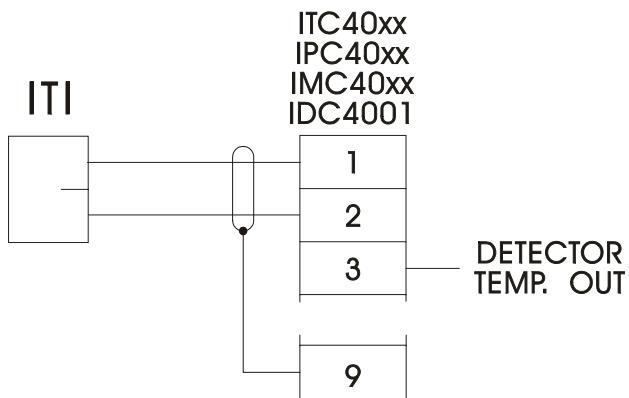
- Vapour tight enclosure
- Current loop operation eliminates problems associated with voltage drop in connecting cables
- Linear over full operating temperature range
- Individually factory calibrated
- Detectors are interchangeable
- Not polarity conscious
- Custom made enclosure on request

**Approvals**

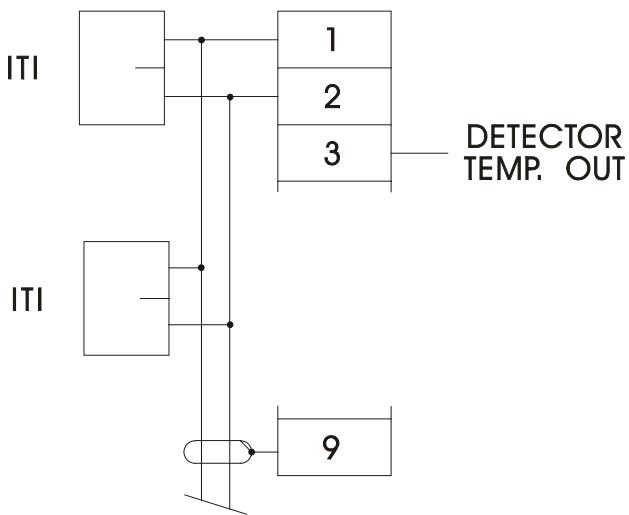
The Innotech ITI series of Immersion Temperature Detectors conforms to:

- Electromagnetic emission and immunity requirements according to standards EN55014 (CISPR14) for RCM labelling

## STANDARD CONNECTION



## \* DETECTOR AVERAGING



\* Requires link change in controller before this option is used.

**INNOTECH**<sup>®</sup>

Australian Owned, Designed & Manufactured  
by Mass Electronics Brisbane

**Phone:** +61 7 3421 9100   **Fax:** +61 7 3421 9101  
**Email:** [sales@innotech.com.au](mailto:sales@innotech.com.au)   [www.innotech.com.au](http://www.innotech.com.au)

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