INNOTECH ®

MODELS:
ITW4201:   Standard Model

ITW4201

Wall Mounted Temperature Detector

with Display

Specifications

Detector Section

Operating Voltage
• 12 VDC to 30 VDC   35 VDC Max

Operating Mode
• Two wire current loop

Calibration
• Within ±0·25°C of reference at 24°C

Display Section

Power Supply
• Voltage: 24 VAC ±10% @ 50/60Hz
• Power Consumption: 1VA max

Input
• 0-19.99 VDC positive maximum

Display Type
• 3½ Digit 7 segment LCD

Display Terminal Identification
8   DC voltage input
9   Common and 0 VAC supply
10   24 VAC supply

Temperature Ratings
• Storage: 0 to 50°C non-condensing
• Operating: 10 to 40°C non-condensing

Enclosure
Manufactured from an ignition resistant grade of ABS which meets the requirements of AS2420.
Colour: Off white.

Installation
1. Mount the base to the wall with four screws through the holes provided in the base of the case.
2. Seal the hole in the wall after wiring.
3. Fit the cover by placing the top edge of the cover over the tabs on the top of the base and then pressing the bottom middle of the cover to the wall.
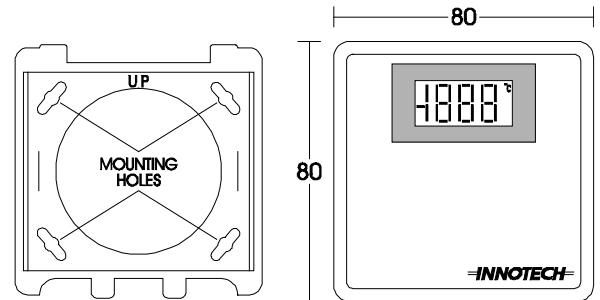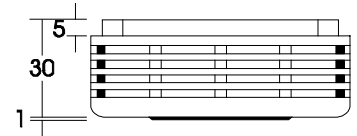
Detector Wiring
For most installations twisted pair cable will be adequate for the detector wiring provided that it is not run in the same conduit as power cables.

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

Display Wiring
1. Earth one side of the 24 V AC at the transformer.
2. Connect the EARTHED side of 24 V AC to terminal 9.
3. DO NOT connect 24 V AC to terminal 8.

Applications
The Innotech ITW4201 wall mounted current loop temperature detector with digital display is designed for use with the Innotech ITC, IPC, IMC and IDC range of temperature controllers and to accept a DC voltage input and display its value as either a temperature display with a "°C" symbol or as a numeric display with no symbol.

Features

Detector
• 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

Display
• Easily read 10mm high digits
• High input impedance minimises source loading
• Field selectable operating mode (Numeric/°C)

Enclosure
• Attractively styled low profile case blends with any decor
• Cover secured by positive locking clips
• No unsightly screws
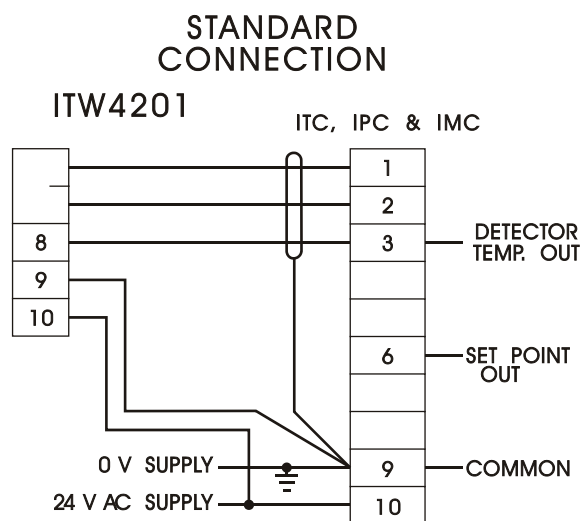
Removing the Cover
Grip the bottom of the sides of the cover and then lift the cover off the wall. It will come free of the base with a minimum of force.

DO NOT grip cover by the middle of the sides and attempt to remove. This will cause the cover to grip more firmly to the base.

Approvals
The Innotech ITW42 series of Wall Mounted Temperature Detectors with Display conforms to:
• Electromagnetic emission and immunity requirements according to standards EN55014 (CISPR14) for CE Marking and C-Tick Labelling.

STANDARD CONNECTION

ITW4201

ITC, IPC & IMC

Screened cable should be used to reduce EMI.

DISPLAY CONNECTION OPTIONS

DISPLAY DETECTOR TEMPERATURE OUT

ITW4201   CONTROLLER

8 ———————— 3

DISPLAY SET POINT OUT

ITW4201   CONTROLLER

8 ———————— 6

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