

Models:

2000 Series (240VAC)

IWP2011 1 Stage HEAT and 1 Stage COOL

IWP2022 2 Stage HEAT and 2 Stage COOL

IWP2002 2 Stage COOL

IWP2020 2 Stage HEAT

4000 Series (24VAC)

IWP4011 1 Stage HEAT and 1 Stage COOL

IWP4022 2 Stage HEAT and 2 Stage COOL

IWP4002 2 Stage COOL

IWP4020 2 Stage HEAT

IWP

Electronic Controller

Specifications

Power Supply

2000 Series 240VAC $\pm 10\%$ 50/60hz

4000 Series 24VAC $\pm 10\%$ 50/60hz

Temperature Detector

Standard Internal (R25 = 10k Ω thermistor)

SENXX Series of Remote Detectors

Outputs

One SPDT voltage free contact per stage (2A max)

Two 0-10VDC control outputs (Heat and Cool)

Terminal Identification

Sensor

S Screened Cable + Detector
DET Detector

Relay Outputs

Change over per stage

Modulating Outputs

7 Cool 0-10VDC
8 Heat 0-10VDC
9 Signal Common

Supply

2000 Series

E Earth
N Neutral
L Mains 240VAC Supply

4000 Series

~ 24VAC Supply
⊥ 0V
⊕ Earth

Remote Detector Wiring

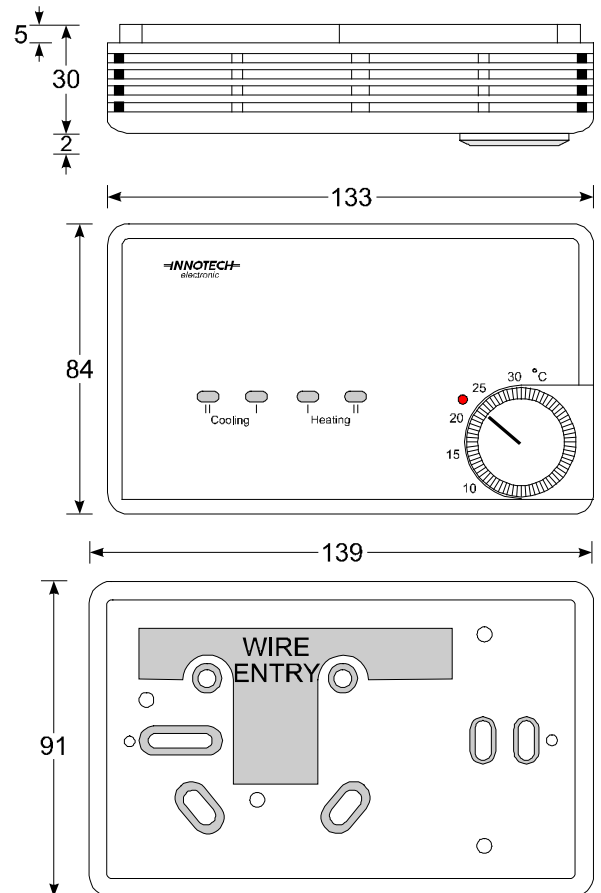
1. DO NOT Connect 24V or 240VAC to the "Sensor" terminals or terminals 7 & 8.
2. Shielded cable should be used. This shield should remain continuous from the detector to terminal "S" on the controller.
3. The screen of the connector wiring MUST be connected to the right hand connection "S" of the "SENSOR" terminals.
4. It is good practice to maintain at least 50mm clearance between detector wiring and power wiring.

 The internal or external detector is calibrated via the "CAL" pot.

Temperature Ratings

Storage: 0-50°C non-condensing

Operating: 0-40°C non-condensing



Application

The INNOTECH range of IWP Controllers are designed to regulate the staging of heating and cooling or air conditioning systems.

The controllers can be used as standalone devices or the modulating outputs can be used to control auxiliary units, such as chilled water valves or damper actuators.

Features

- LED indication of relay status
- Attractively styled low profile case blends with any decor
- Auto Change Over
- Wide Range of Applications
- Mounting plate fits 50mm conduit box and standard wall plate
- Separate 0-10VDC outputs for heating and cooling

Set Point

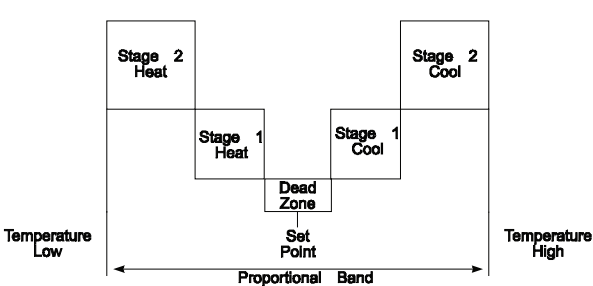
The Set Point is adjustable from 10°C to 30°C via the Set Point pot. An external scaled knob is fitted for user adjustment.

Proportional Band

The Proportional Band (PB) is adjustable from 1°C to 11°C via the internal PB potentiometer. A scale is printed on the printed circuit board to facilitate this adjustment. This adjustment represents Total PB (Cool PB + Heat PB).

Dead Zone

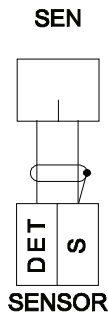
The Dead Zone is adjustable from 10 to 60% of the proportional band setting via the internal "% DZ potentiometer". A scale is printed on the printed circuit board to facilitate this adjustment.



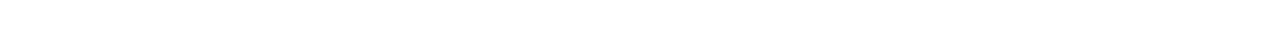
Operation & Control Function

2 Stage Heat and 2 Stage Cool

REMOTE DETECTOR
 CONNECTION



DET - DETECTOR S - CABLE SCREEN
 SCREENED CABLE SHOULD BE USED TO REDUCE EMI
 # NB - REMOVE THERMISTOR FROM TERMINAL STRIP



Installation

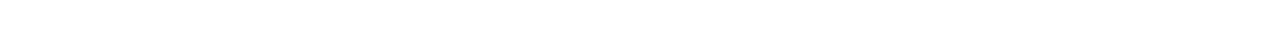
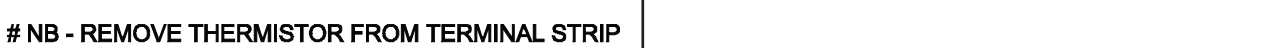
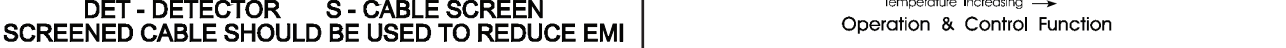
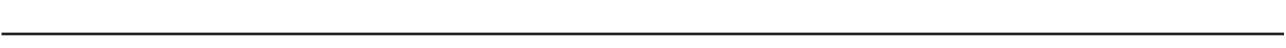
- 1. Mount controller in a dry and reasonably clean location free of excessive vibration.
- 2. Wire in accordance with INNOTECH connection diagrams and local bylaws or refer to your local distributor.

 This product should only be installed by qualified personnel.

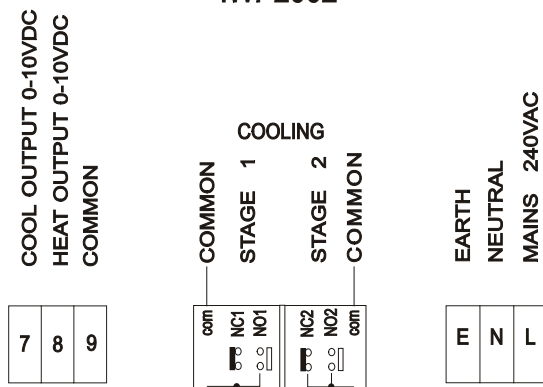
Enclosure

Manufactured from an ignition resistant grade of ABS which meets the requirements of AS2420.

Colour: Off White

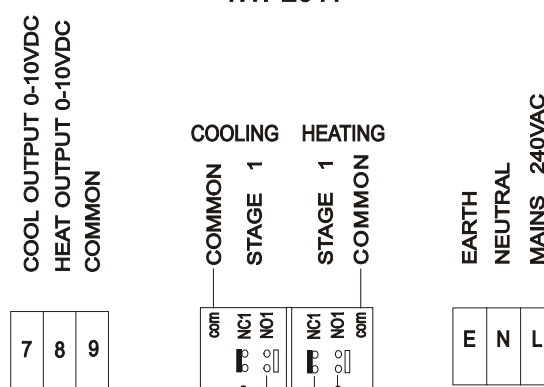


STANDARD CONNECTION IWP2002



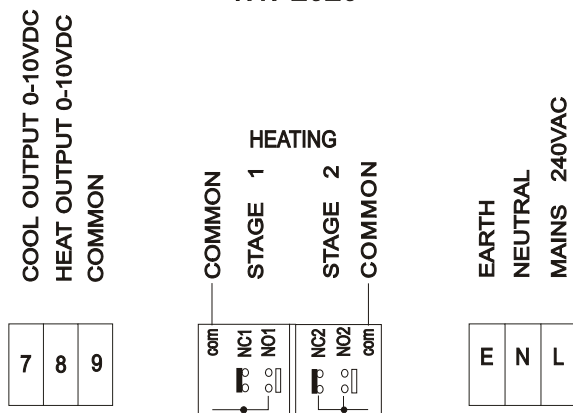
* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP2011



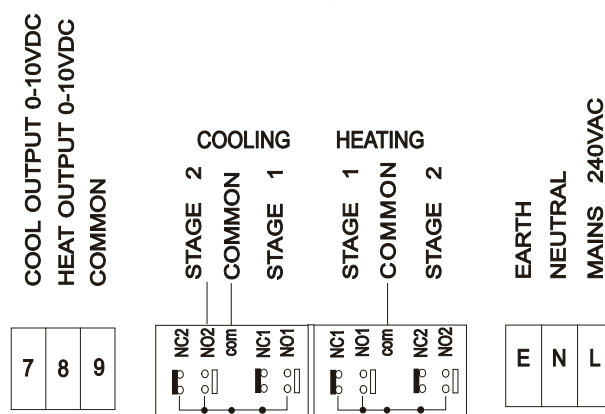
* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP2020



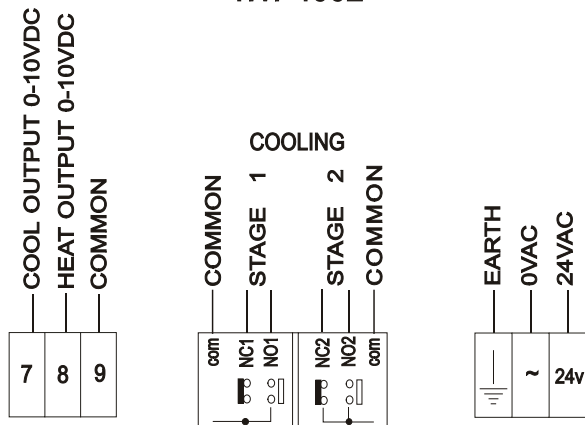
* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP2022



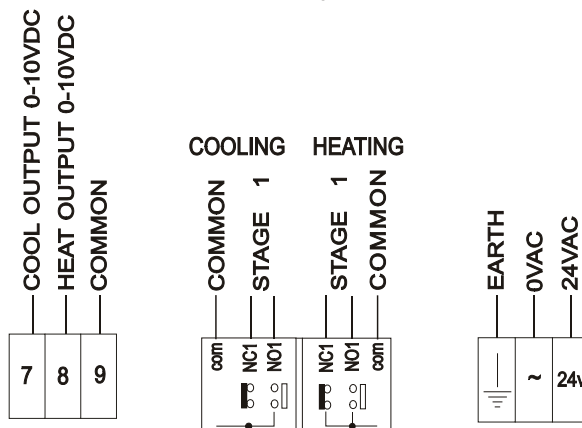
* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP4002



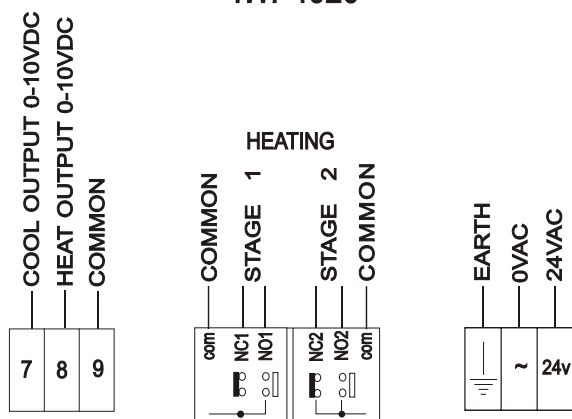
* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP4011



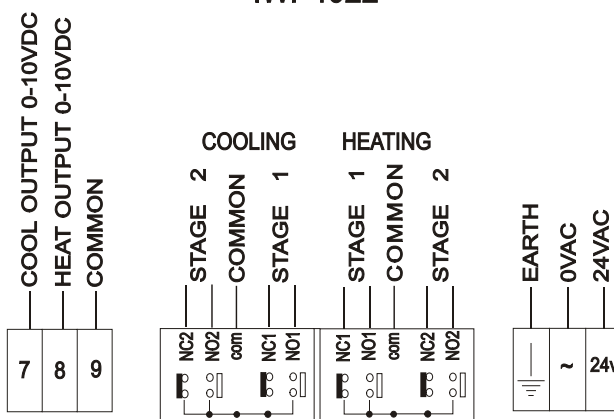
* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP4020



* Note : Terminal 9 and Earth are Internally Connected.

STANDARD CONNECTION IWP4022



* Note : Terminal 9 and Earth are Internally Connected.

INNOTECH®

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