DS 2.84
August 2013

Models:
2000 Series (240VAC)
IWC2001 2 x 0-10VDC Outputs

4000 Series (24VAC)
IWC4001 2 x 0-10VDC Outputs

IWC
Electronic Controller

Specifications

Power Supply

2000 Series	240VAC	±10% 50/60hz
4000 Series	24VAC	±10% 50/60hz

Temperature Detector

Standard	Internal 10kΩ thermistor
SENxx	Series of Remote Detectors

Outputs

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

Terminal Identification

Sensor

S	Screened Cable + Detector
DET	Detector

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

9	0V
10	24VAC Supply

Temperature Ratings

Storage:	0-50°C non-condensing
Operating:	0-40°C non-condensing

Enclosure

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

Installation

1. Mount 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.

Set Point

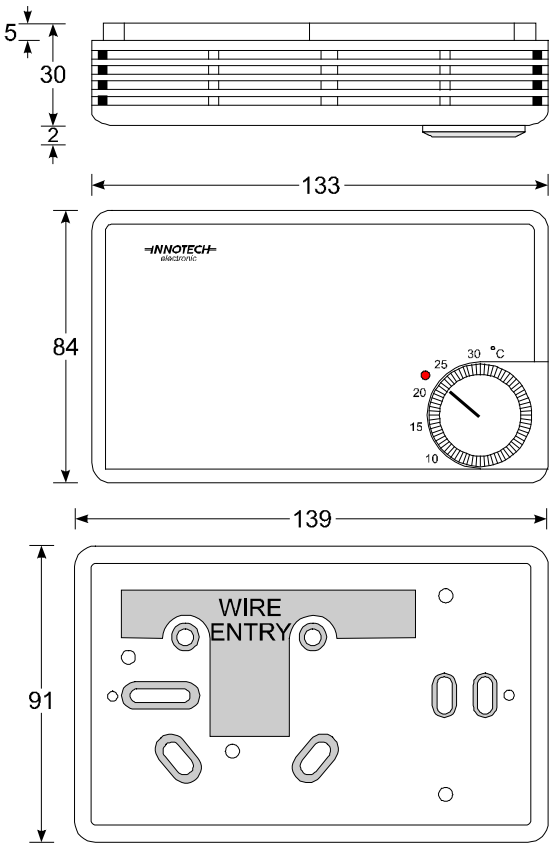
The Set Point is adjustable from 10°C to 30°C via the Set Point pot. An external scaled knob is fitted for user adjustment.

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.



Application

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

The controller's modulating heating and cooling outputs can be used to control auxiliary units, such as chilled water valves or damper actuators.

Features

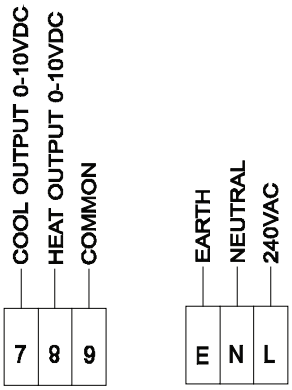
- Attractively styled low profile case blends with any decor
- Auto Change Over
- Wide Range of Applications
- Mounting plate fits 50mm conduit box and standard wall plate
- Separate 0-10VDC outputs for heating and cooling

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.

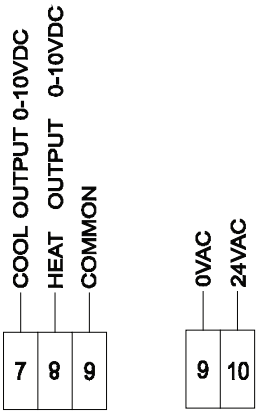
The internal or external detector is calibrated via the "CAL" pot.

STANDARD CONNECTION IWC2001



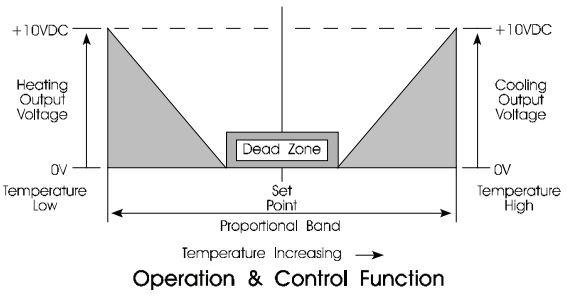
*** Note : Terminal 9 and Earth internally connected. ****

STANDARD CONNECTION IWC4001



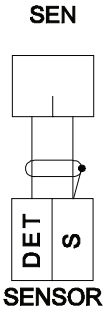
*** Note : Terminal 9 internally connected. ****

OPERATION AND CONTROL FUNCTION OF MODULATING OUTPUTS



Operation & Control Function

REMOTE DETECTOR CONNECTION



DET - DETECTOR S - CABLE SCREEN
SCREENED CABLE SHOULD BE USED TO REDUCE EMI

 # NB - REMOVE THERMISTOR FROM TERMINAL STRIP

INNOTECH®

Australian Owned, Designed & Manufactured
by Mass Electronics Brisbane

Phone: +61 7 3421 9100 **Fax:** +61 7 3421 9101
Email: sales@innotech.com.au www.innotech.com.au

YOUR DISTRIBUTOR