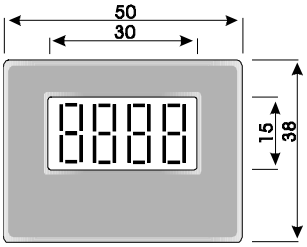
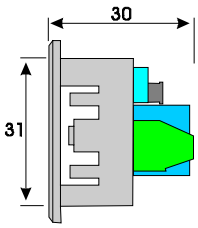
MODELS:
IDD5001: Digital Display 0-100
IDD5003: Digital Display -50 to 50
IDD5004: Digital Display 0-1000

IDD500x
Digital Display





Specification

Power Supply
- Voltage: 24VAC ±10% @ 50/60Hz or 24VDC ±10%
- Power Consumption: 2VA max

The transformers used must be safety transformers in compliance with EN 60742 and be designed for 100% duty. The operating voltage must meet the requirements of safety extra low voltage (SELV) to EN 60730. The transformer must be sized and fused in compliance with local safety regulations.

Input
- -2.5V to +11VDC max

Display Resolution

IDD5001

Range:	0 to 100.00
Resolution:	0.1
Scaling:	Volts x 10

IDD5003

Range:	-50.0 to 50.0
Resolution:	0.1
Scaling:	Volts x 10

IDD5004

Range:	0 to 1000
Resolution:	0.1
Scaling:	Volts x 10

Display Type
- Green 4 digit, 7 segment LED

Terminal Identification

7	-2.5V to +11VDC input
8	Input Common
9	Common and 0VAC Supply
10	24VAC Supply

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

Mounting
- Snap mounted into 44mm by 31mm hole in panel
- Panel thickness 1.7mm to 2.0mm

Installation
1. Mount the display in a clean and dry location free of vibration.
2. Wire in accordance with Innotech connection diagrams and local bylaws or refer to your local distributor.

Use extreme care when mounting the display in the panel as the display can be easily damaged if handled improperly.

Mounting
1. Apply only a small amount of force evenly on the surround of the display to gently ease it into the cutout. It may be necessary to depress the locking tabs slightly.
2. Ensure that the display is not subjected to any stress from the mounting when fitted into the panel.

Approvals
The IDD5001 conforms to the requirements according to standards EN55011 (CISPR11) Class B for RCM labelling.

Applications
The Innotech IDD digital display is designed to be panel mounted and accept a -2.5 to +11.0VDC input signal.

Features
- Easily read 10mm high digits
- High input impedance minimises source loading
- Resolution of 0.1
- Can be connected to any -2.5 to +11.0VDC signal source

Calibration
The digital display in the IDD can be calibrated via the start and span pots as described below.

Use extreme care when making these adjustment as the display components are miniature and therefore fragile.

1. Remove any wires from terminal 7.
2. Short terminals 7 & 8 together.
3. Adjust ‘Zero’ Pot with screwdriver until the meter reads 0.00.
4. Apply a DC voltage to the input terminal 7.
5. Measure the voltage with a multimeter and adjust the ‘span’ pot with a screwdriver until the reading on the display agrees with the multimeter.

Wiring
1. Earth one side of the 24VAC at the transformer.
2. Shielded twisted pair cable should be used to minimise EMI (electro-magnetic interference). The shield should remain continuous from the display to the signal source. Do not connect the shield to the source being measured. (See diagram).

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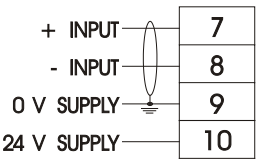
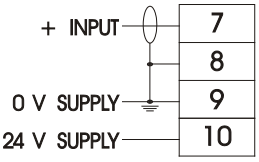
STANDARD CONNECTION

IDD500X

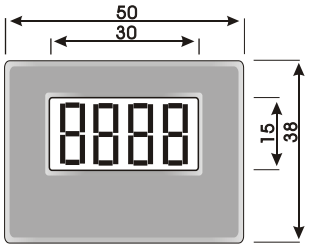


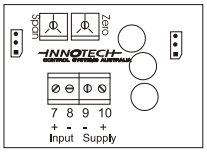
COMMON GROUND CONNECTION*

IDD500X

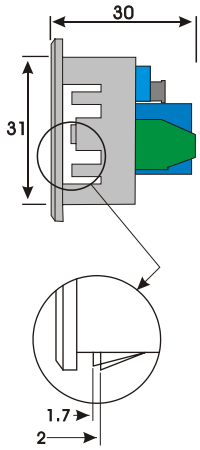


*READING WILL NOT BE AS ACCURATE OVER LONGER CABLE RUNS.





Rear of display showing terminal connections.



Snap fastening fits 1.7 to 2mm panel.

Recommended panel cutout size 44mm wide by 31mm high.

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