



DATASHEET:
**DELTA INPUT/OUTPUT
MODULE DI 20109**

PRODUCT SUMMARY

The Delta Integrated Input / Output Module is one of a range of base units that can be connected easily to other items of equipment, such as valve monitoring equipment, fire alarm panels and many other applications.

It features the most inputs and outputs on any of our edge devices with dual 4-20mA, 4 digital inputs and 4 relay outputs.

It is the perfect solution for control-based systems utilising its wide range of inputs and outputs to read or trigger various events both locally and over the mesh.

It also serves as an ideal unit for monitoring a large piece of equipment with numerous monitoring points, or for monitoring several small units that are within proximity.

BENEFITS AT A GLANCE

- 2 x 4-20mA Analogue Inputs
- 4 x Digital Inputs
- 4 x Relay Outputs (rated at 35Vdc max at 2amps)
- Transmit power output up to +20 dBm
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)
- RF Data rate up to 2Mbps
- A total of 6 Inputs and 4 Outputs allowing for a greater degree of flexibility in monitoring and control applications
- Powerful processing to manage the data to and from the inputs and outputs at high speeds
- IP rated allowing for external applications
- Self-healing mesh network
- -20°C to +60°C industrial operating temperature

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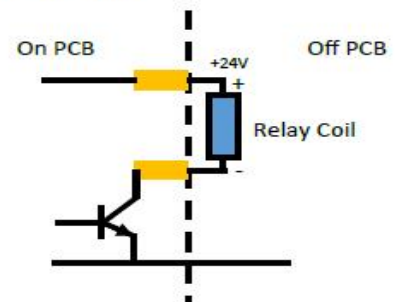
CONNECTION DIAGRAM



DETAILS

- 1) Power Supply: 24Vdc @ 150mA
- 2) Relay Outputs
- 3) Digital Inputs / Dry Contact / Volt Free Contact / Simple Switch
 - a. Either Normally Open or Normally Closed
- 4) Monitored Digital Input
 - a. Can function as either a standard digital input or a monitored digital input. (changed by jumper marked yellow).
 - b. End of Line Resistors (4k7, 10k)
- 5) Analogue Inputs / 4-20mA Input
 - a. Not polarised - can be connected either way.

Relay Diagram



COMPLIANCE

- ACMA Radiocommunication (Low Interference Potential Devices) Compliant
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)

APPLICATIONS

- Monitoring multiple localized devices
- Monitoring multiple outputs of a single device
- Controlling relay outputs
- Localised (non-mesh) monitoring and control

SPECIFICATIONS

Electrical rating

- 12-24Vdc

Dimensions

- 250 x 300 x 205mm

Mounting

- 4 mounting holes on the rear of the enclosure

PRINCIPLES OF OPERATION

The DI 20109 operates using the SNAP Mesh Network. This innovative and secure technology ensures stable and near instantaneous network communications. In the event that the direct route of communication between units is broken the mesh can reroute communications to ensure continued communication.

CERTIFICATION

- FFC Part 15.247, FCC ID: U90-SM220
- Industry Canada (IC), 7084A-SM220