



IDRATEK

INTELLIGENT AUTOMATION

QAO-001

4 Way Analogue Output

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The 4 Way Analogue Output module provides a means of outputting specific voltage signals. These may be used for example to control devices such as proportionate valve actuators or suitably equipped dimmer modules. The unit is only intended for the generation of relatively slow varying signals.



Output Characteristics

- Number of channels: 4 (NON-ISOLATED)
- Nominal output voltage range: 0V to +10V
- Max. output current: 30mA per channel @10V, 50mA aggregate.
- Resolution over range: 10 bits monotonic
- Internal update rate ~10Hz

Functional

- Output levels can be set independently at any time
- Simultaneous group settings possible
- Independent Ramp function on each channel (8 bit res.)
 - User selectable ramp rates: 0.04-5V/0.1s or 0.04-5V/s
- Independent User Defined Profiles for each channel (10 bit res.)
 - Control over individual step dwell interval (range 0.1s – 127s)
 - No limit on profile lengths up to memory limits (>5K points)
 - Cyclic profiles and profile sharing possible
 - Profile data retained in non-volatile reprogrammable memory
- User definable initial output values
- Module Initialise trigger
- Status indicator LED
- Fully IDRANet Compatible



Electrical

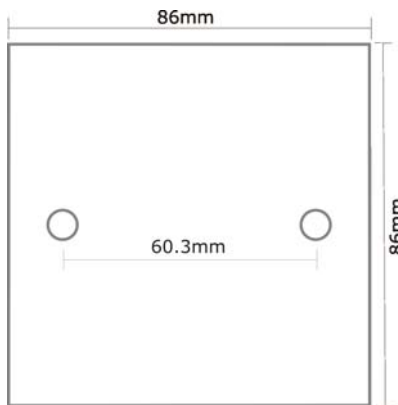
- Operating voltage 12-15V DC
- Current consumption 20mA (All outputs @0V)

Environmental

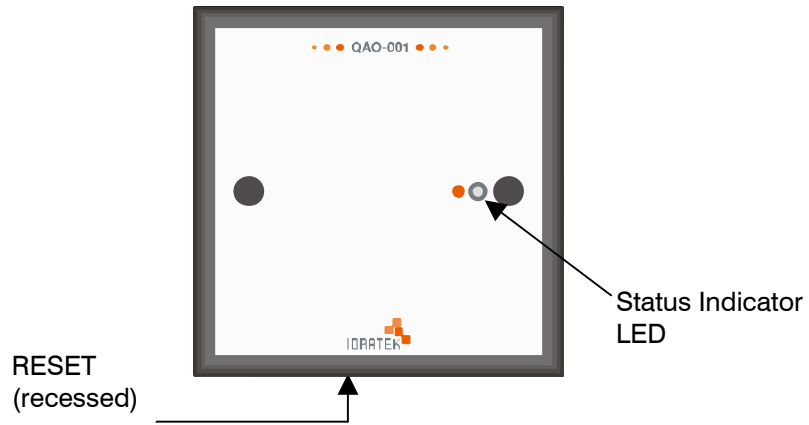
- Operating temperature -10°C to +45°C
- Operating humidity 5% to 95% (non-condensing)

Mechanical

- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws
- Output connections via 2.54mm pitch terminal block, up to 0.5mm² conductor cross section. Two 0V connection points.

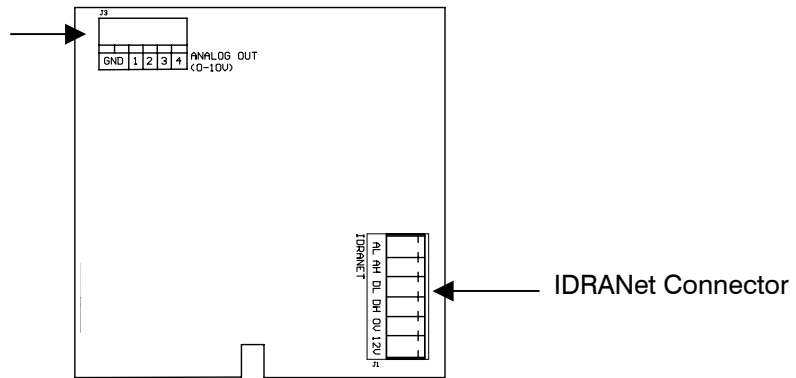


Interfaces (front)



Interfaces (rear)

Output Signal Connector
2.54mm pitch,
Up to 0.5mm² conductor



Example connectivity

