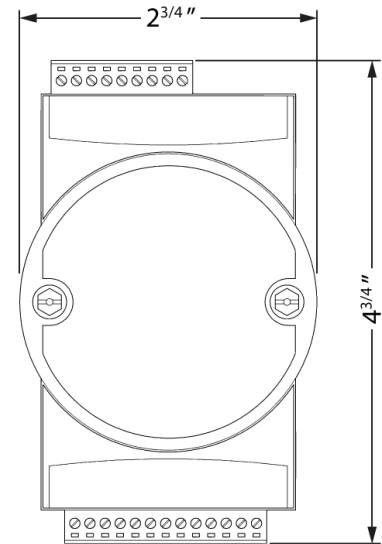


### Key Features

- ◇ I/O Type: Six Analog Input, Two Analog Output, Two Digital Input, Two Digital Output
- ◇ Isolation Voltage: 2,000 V<sub>DC</sub>
- ◇ 10/100 Mbps Base-T Ethernet Communication
- ◇ Analog Accuracy: ± 0.1% of FSR



The HSQ-6024 is a universal I/O module for various signal applications. There are six analog inputs, two analog outputs, two digital inputs, and two digital outputs. This module has a universal analog signal type, which makes it an excellent cost-effective I/O solution.

### SPECIFICATIONS

#### Analog Input

- **Channels:** 6 (differential)
- **Input Impedance:** 20 MΩ
- **Input Range:** ±10 V<sub>DC</sub>, 0 – 20 mA, 4 – 20 mA
- **Span Drift:** ± 25 ppm / °C
- **Zero Drift:** ± 6 μV / °C

#### Analog Output

- **Channels:** 2
- **Output Type:** V, mA
- **Output Range:** 0 – 10 V<sub>DC</sub>, 0 – 20 mA, 4 – 20 mA
- **Drift:** ± 50 ppm / °C
- **Current Load Resistor:** 0 – 500

#### Digital Input

- **Channels:** 2
- **Dry Contact:** Logic level 0: close to GND  
Logic level 1: open
- **Wet Contact:** Logic level 0: 0 – 3 V<sub>DC</sub>  
Logic level 1: 10 – 30 V<sub>DC</sub>

#### Digital Output

- **Channels:** 2 (Open Collector to 30 V, 100 mA maximum load)
- **Power Dissipation:** 300 mW per module

#### General

- **Power Consumption:** 4 W @ 24 V<sub>DC</sub>
- **Connectors:** Plug-in screw terminal block (I/O and power)
- **Watchdog:** System (1.6 second) and Communication (programmable)
- **Power Input:** 10 – 30 V<sub>DC</sub>

#### Protection

- **Over Voltage Protection:** ±35 V<sub>DC</sub>
- **Isolation Protection:** 2,000 V<sub>DC</sub>
- **Built-in TVS/ESD Protection**
- **Power Reversal Protection**

#### Environment

- **Operating Temperature:** -10° – 50° C (14° – 122° F)
- **Storage Temperature:** -20° – 80° C (-4° – 176° F)
- **Humidity (Operating):** 20 – 95% RH (non-condensing)
- **Humidity (Storage):** 0 – 95% RH (non-condensing)

