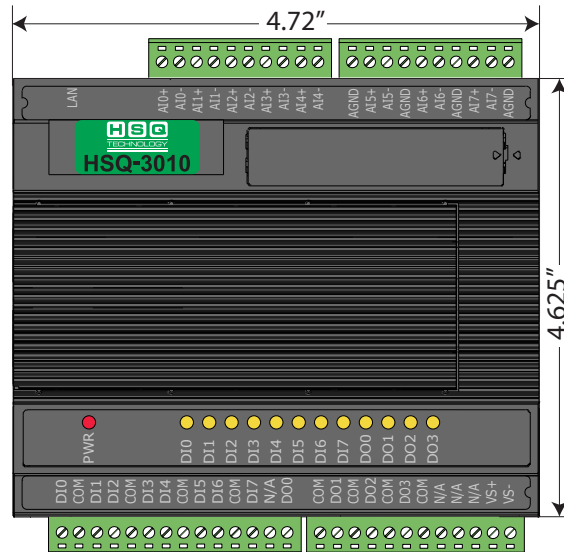


Key Features

- ◇ I/O Type: Eight Analog Inputs, Eight Digital Inputs, and Four Digital Outputs
- ◇ Industrial Modbus/TCP Protocol
- ◇ Online device auto-scan or manual configuration
- ◇ Pulse/Accumulator Input
- ◇ Remote maintenance via Ethernet



The HSQ-3010 is an Ethernet I/O module that supports the Modbus TCP protocol and delivers various onboard I/Os including analog input, digital input, and digital output, providing flexible options to satisfy versatile application requirements.

SPECIFICATIONS

Analog Input

- **Channels:** 8
- **Input Impedance:** 2 MΩ (voltage)
- **Input Type:** V, mA*1, RTD*2
- **Voltage Range:** 0 – 10 V
- **Current Range:** 0 – 20 mA, 4 – 20 mA
- **RTD Type:** Pt 100, Pt 1000, IEC RTD, JIS RTD
- **Accuracy:** ± 0.1% or better (voltage)
± 0.2% or better (current)
± 0.5 ° C or better (RTD)
- **Span Drift:** ± 25 ppm / ° C
- **Zero Drift:** ± 6 μV / ° C
- **Resolution:** 16-bit
- **Sampling Rate:** 10 sample/second (total)
- **CMR @ 50/60 Hz:** 90 dB
- **NMR @ 50/60 Hz:** 60 dB

Digital Input

- **Channels:** 8
- **Dry Contact:** Logic level 0: Open
Logic level 1: Close to Ground
- **Isolation Protection:** 2500 V_{DC}
- **200 Hz Pulse/Accumulator Input**

Digital Output

- **Channels:** 4 (Open Collector - 30 V, 30 mA max.)
- **Power Dissipation:** 300 mW per channel
- **PWM Period:** 20 ms – 3600 sec. (≥ 2 ms duty on)
- **Isolation Protection:** 2500 V_{DC}

General

- **Ethernet:** 10/100 Base-T
- **Power Consumption:** 3 W @ 24 V_{DC}
- **Connectors:** 1 x RJ-45 (LAN)
4 X Plug-in screw terminal block
- **Watchdog Timer:** System (1.6 seconds)
- **Power Input:** 10 – 30 V_{DC}
- **Supported Protocols:** Modbus/TCP

Protection

- **Over Voltage Protection:** ± 35 V_{DC}
- **Built-in TVS/ESD Protection**

Environment

- **Operating Temperature:** -40° – 70° C (-40° – 158° F)
- **Storage Temperature:** -40° – 70° C (-40° – 158° F)
- **Humidity (Operating):** 5 – 95% RH (non-condensing)

