

Features

- **NEMA 6P/IP68 protection against corrosion, washdown, and temperature extremes.**
- **Polystyrene enclosures that are epoxy-filled and stainless steel connectors for maximum environmental protection.**
- **Variety of I/O types to meet a wide range of application requirements.**
- **Smart Distributed System models that provide extensive flexibility in the application of Aqua modules.**
- **Analog modules allow for scaling of inputs or outputs to provide the host controller with meaningful data.**
- **Analog and frequency modules can have each channel configured as a System address or as an embedded object within a single address.**

Description

The Holjeron Aqua Series I/O modules are designed for use where Smart Distributed Systems are being applied in harsh environments such as washdown, high corrosion and those with a wide temperature extremes.

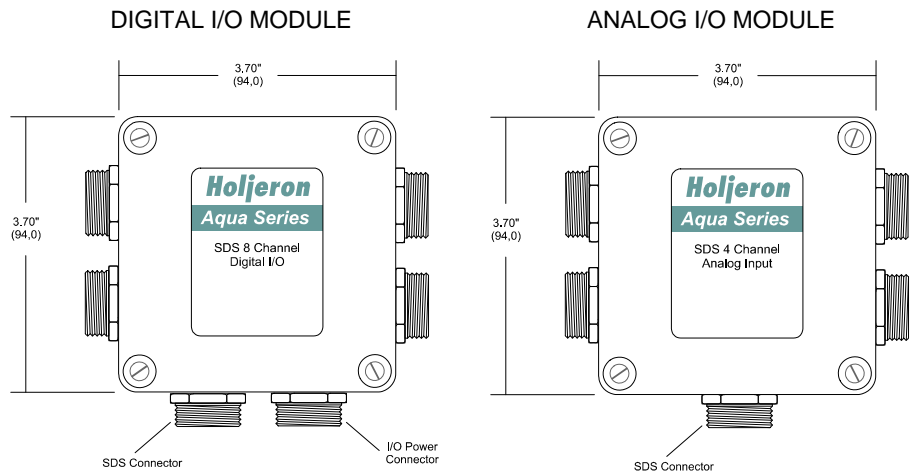
In addition to withstanding harsh conditions, each Aqua module is equipped with a Smart Distributed System interface that is designed to provide maximum flexibility for the user. Each point on a digital module can be configured as an input or an output, the frequency module and accept either encoder or magnetic pulse inputs, and the analog modules can scale their values so the host controller can work with meaningful values.



Ordering Information

| Description | Part Number |
|--|-------------|
| Digital I/O Module, 8 point, 10-30 VDC Each point configurable as an input or an output | AQU-DIG108 |
| Analog Input Module, 4 Channel Each channel configurable as 0-20 mA or 0-5 VDC input. | AQU-AIN104 |
| Analog Output Module, 4 Channel, 0-22 mA | AQU-AUT104 |
| Frequency Input Module, 4 Channel Each channel configurable for encoder or magnetic flow meter input. | AQU-FRQ204 |

Dimensions








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Specifications Subject To Change Without Notice

Specifications

| | | | |
|-------------------------|---------------------|---|---|
| Electrical | Voltage Range (SDS) | | 11-25 VDC |
| | Current Consumption | Digital | 50 mA maximum |
| | | Analog/Frequency | 80 mA plus load |
| | Protection | | Reverse Polarity, Short Circuit |
| | Data Rates | | 125, 250, 500 and 1000 kbps |
| Digital I/O | Type | | Current Sinking |
| | Number | | Eight (8) |
| | Voltage Range | | 10-30 VDC |
| | Current Rating | | 3 amps per point |
| | Protection | | Reverse Polarity, Short Circuit |
| Analog Inputs | Type | | 0-20 mA or 0-5 VDC, selectable |
| | Number | | Four (4) |
| | Resolution | | Signed 16-bit (-32768 to 32767) |
| | Response Time | | 10 msec per channel |
| Analog Outputs | Type | | 0-22 mA |
| | Number | | Four (4) |
| | Resolution | | Unsigned 12-bit (0 to 4095) |
| | Response Time | | 10 msec per channel |
| Frequency Inputs | Type | | Encoder or magnetic pulse, selectable |
| | Number | | Four (4) |
| | Frequency | | 0-30 KHz |
| | Voltage Range | | Up to 25 VDC |
| Environmental | Temperature | Operating | -30 to 70 °C (-22 to 158 °F) |
| | | Storage | -40 to 85 °C (-40 to 185 °F) |
| | Humidity | | 0%-95% RH, non-condensing |
| | Vibration | | 10G at 10-500 Hz |
| | Shock | | 20G |
| | Sealing | | NEMA 6P, IP68 |
| Physical | Dimensions | | 3.70" x 3.70" x 2.24" |
| | Mounting | | ¼-20 Bolts through the housing |
| | Housing Material | | Polystyrene, interior epoxy filled |
| | Terminations | SDS | 5 pin male quick connect, stainless steel |
| | | I/O | 4 pin female quick connect, stainless steel |
| | Digital I/O Power | 3 pin male quick connect, stainless steel | |

Connector Pinouts

| Pin | SDS  | Analog Input  | Analog Output  | Frequency Input  | Digital I/O  |
|-----|--|---|--|--|--|
| 1 | Bus Shield | Not Connected | Not Connected | Not Connected | I/O Point 1 |
| 2 | Bus Power (DC+) | I/O Power | I/O Power | I/O Power | I/O Power |
| 3 | Bus Power (GND) | Input Signal | Output Signal | Input Signal | I/O Point 2 |
| 4 | Bus Comm (Bus +) | Ground | Ground | Ground | Ground |
| 5 | Bus Comm (Bus -) | N/A | N/A | N/A | N/A |