DATASHEET

Analog 0-10 V Module
BM-A010-122S (1-Pack)

The analog 0-10 V I/O module provides two 24-bit inputs and two 16-bit outputs. The I/O modules offer 2500 V r.m.s. isolation, with a wide operating temperature range and Class I Division 2 hazardous location rating, making them ideal for demanding industrial installations.

Connect them to the wireless I/O radios for point-to-point wire replacement applications, or to the RS485 I/O Extension module to add I/O to a Modbus network.

Features

♦ *Easy to use*: No software configuration needed

♦ *Easy to install*: Mounts onto a 35 mm DIN rail without any tools

♦ *Failsafe*: User can defines how outputs are failed over when RF or I/O communication is ever lost

♦ *Number of Inputs*: 2 (24-bit Resolution)

♦ *Number of Outputs*: 2 (16-bit Resolution)

♦ *Isolation Voltage*: 2500 V r.m.s.

♦ *Accuracy*: < 0.1% of Full Scale

♦ *FailSafe Modes*: Last known value (Default) or Any value on scale

Specifications

Hardware & System

Specification	Description
DIN Rail Mounting Compatibility	35 mm x 7.5 mm DIN Rail
I/O Module Slave ID Selection	16-Position rotary switch
Built-In Mounting Hardware	Spring-loaded clip-on system
Wire Gauge	Solid / Stranded (AWG) 28-12 gauge
Wire Rating	UL: 300 V RMS, 80 °C and 300 V, 105 °C
	CSA: 300 V RMS, 105 °C
Warranty	2-Year limited

Analog 0-10 V

Specification	Description
Number of Inputs	2 (24-bit Resolution)
Number of Outputs	2 (16-bit Resolution)
Isolation Voltage	2500 V r.m.s.
Signal Range	0 to 10 VDC (10.5 V Max)
Accuracy	< 0.1% of Full Scale
FailSafe Modes	Last Known Value (Def.) or Any value on scale[3]
AI Input Impedance	40K Ohm
AO Output Impedance	10 Ohm

[3]Requires Advanced User Interface to set a specific value on Analog I/O Module.

Physical

Specification	Description
Power Consumption	Typical: 40 mA / Max: 45 mA @12 VDC
Packaging Dimensions (WxHxD)	4.8 x 5.1 x 2.8 in
	123 x 129 x 72 mm
Net Dimensions	0.7 x 3.9 x 4.5 in
	17.5 x 99 x 114 mm
Packaging Weight	Single: 0.5 lbs / 227 g
	Double: 0.8 lbs / 363 g

Safety & Compliance

Specification	Description
Operational Temperature	-40 °C to 80 °C / -40 °F to 176 °F
Storage Temperature	-20 °C to 85 °C / -4 °F to 185 °F
Humidity	0 to 99 %, Non-condensing
Degree of Protection / Housing Type	IP20 / Plastic
Hazardous Locations Classifications	UL Class I; Division 2 (Zone 2), Pending