Input/Output Modules

GSA-IO, GSA-MIO

MEA
Patented

Overview

GSA-IO and MIO Input/Output Modules are intelligent analog addressable devices that form part of Vigilant's Signature line of products. The actual operation of the GSA-IO and MIO is determined by the "personality code" selected by the installer, which is downloaded to the module from the Signature loop controller during system configuration.

Depending on their assigned personality, Input/Output Modules provide the following modes of operation:
- Output with monitor input (two personalities)
- Input/programmable output (eight personalities)

Each IO module requires one module address.

Standard Features

- **10 modules in one**
  Multiple applications including normally-open or normally-closed alarm relay and latching or non-latching alarm inputs. The installer selects one of up to 10 personality codes to be downloaded from the loop controller.

- **Adjustable time delays**
  User sets the expected response time (5 - 120 seconds) for maximum flexibility.

- **Plug in (UIO) or standard 1-gang mount**
  UIO versions allow quick installation where multiple modules are required. The 1-gang mount version is ideal for remote locations that require a single module.

- **Automatic device mapping**
  Signature modules transmit information to the loop controller regarding their circuit locations with respect to other Signature devices on the wire loop.

- **Electronic addressing**
  Programmable addresses are downloaded from the loop controller, a PC, or the SIGA-PRO Signature Program/Service Tool. There are no switches or dials to set.

- **Intelligent device with microprocessor**
  All decisions are made at the module to allow lower communication speed with substantially improved control panel response time and less sensitivity to line noise and loop wiring properties; twisted or shielded wire is not required.

Specifications

Model	GSA-IO	GSA-MIO
Description	Standard Mount Input/Output Module	Plug-in (UIO) Input/Output Module
Mounting	North American 2½ inch (64 mm) deep one-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with one-gang covers and GSA-MP mounting plates	Plugs into UIO2R or UIO6R Motherboards only.
Current Standby Activated	250 µA 430 µA	
Relay type	Form A or B	
Contact ratings (pilot duty) 24 Vdc 120 AC	2 A 0.5 A	
Initiating Device Circuit EOL (end-of-line) resistor Max. circuit resistance Max. circuit capacitance	UL/ULC listed 47k Ohm 50 Ohm (25 Ohms per wire) 0.1 µF	
Wiring Terminations	Suitable for #12 to #18 AWG (2.5 mm² to 0.75mm²)	
Personality Codes	Ten Selectable Codes Available	
Address Requirements	Uses One Module Address	
Operating Voltage	15.2 to 19.95 Vdc (19 Vdc nominal)	
Construction	High Impact Engineering Polymer	
Environment Operating Temperature Storage Temperature Humidity	32° F to 120° F (0° C to 49° C) -4° F to 140° F (-20° C to 60° C) 0 to 93% RH	
LED Operation	On-board Green LED - Flashes when polled; On-board Red LED - Flashes when in alarm/active	
Compatibility	Use GSA-IO and GSA-MIO with: Signature Loop Controller Plug GSA-MIO into: UIO6R or UIO2R Motherboards	
Agency Listings	UL, ULC, MEA, CSFM	

Ordering Information

Catalog Number	Description	Ship Wt. lbs (kg)
GSA-IO	Input/Output Module (Standard Mount) - UL/ULC Listed	0.34 (0.15)
GSA-MIO	Input/Output Module (Plug-in) - UL/ULC Listed	0.22 (0.10)

Related Equipment		
27193-11	Surface Mount Box - Red, 1-gang	2 (1.2)
27193-16	Surface Mount Box - White, 1-gang	2 (1.2)
GSA-UIO2R	Universal Input-Output Module Board w/Riser Inputs - Two Module Positions	0.32 (0.15)
GSA-UIO6R	Universal Input-Output Module Board w/Riser Inputs - Six Module Positions	0.62 (0.28)
MFC-A	UL listed cabinet for mounting releasing modules, red with white "FIRE".	7.0 (3.1)
GSA-MB4	Transponder Mounting Bracket (allows for mounting two 1-gang modules in a 2-gang box)	0.4 (0.15)
GSA-MP1	Signature Module Mounting Plate, 1 footprint	1.5 (0.70)
GSA-MP2	Signature Module Mounting Plate, 1/2 footprint	0.5 (0.23)
GSA-MP2L	Signature Module Mounting Plate, 1/2 extended footprint	1.02 (0.46)

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214 Fairway Ave, London Ontario, N5W 1J3
Office (519) 659-6923 Fax (519) 9518461

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