

IOX Modules

IOX modules are specialized STATbus devices which allow additional inputs and outputs to be added to the controller either in blocks of I/O points or in increments as small as a single input or output. Remote I/O is essential to the GPC3 which has no onboard inputs or outputs. Instead it serves as the foundation on which you can build up a STATbus based controller that perfectly meets your needs. The flexibility of IOX modules can also be utilized by the GPC1. Here, IOX modules provide configuration options and flexibility that cannot be achieved with a conventional controller.

STATbus

STATbus™ is American Auto-Matrix's innovative new sensor networking technology. STATbus is an open-topology network protocol that allows flexible connection of up to thirteen I/O devices per channel using a single non-polar, twisted pair cable. This provides unprecedented flexibility in the installation and wiring of I/O sensors and devices to the GPC. Substantial saving can be realized in both wiring and installation costs as compared to conventional sensors. Also, STATbus uses digital communications signals, giving it a higher level of noise immunity than conventional, analog sensors.

SSB-FI1

Designed to fit in a standard 2x4 junction box, the SSB-FI1 provides a single remote universal input point designed to digitize any passive sensor such as an RTD, thermistor, etc..



SSB-DO1&2

Relays on the SSB-DO1 and SSB-DO2 allow switching up to 250 VAC/DC at up to 10 A. The SSB-DO1- I and the SSB-DO2-I also provide dry contact inputs for function status monitoring.



REMOTE I/O

Remote inputs and outputs are simply inputs and outputs which are not physically located on the controller. IOX modules, connected to a GPC controller via the STATbus, provide additional I/O points to the controller. Each device can be given a unique text name to help identify it.

Through the use of IOX modules, you can craft a controller with an I/O profile customized to exactly fit your needs. The controller is tailored to suit the job rather than designing the job around the capabilities of a controller and you don't pay for I/O that you don't need. If you need to expand the system later, it is simply a matter of connecting additional IOX modules

SSB-UI1, AO1, DI1

Providing a universal input point, an analog output point or a pulse input point, respectively, the SSB-UI1, SSB-AO1 and SSB-DI1 provide the GPC with a number of I/O options. This module provides excitation power for devices such as CO and CO₂ sensors, pressure sensors, etc.



Module	Universal Inputs	Digital Inputs	Analog Outputs	Digital Outputs
SSB-FI1	1	-	-	-
SSB-UI1	1	-	-	-
SSB-AO1	-	-	1	-
SSB-DI1	-	1	-	-
SSB-DO1	-	-	-	1 (relay)
SSB-DO1-I	-	1 (dry contact)	-	1 (relay)
SSB-DO2	-	-	-	2 (relay)
SSB-DO2-I	-	2 (dry contact)	-	2 (relay)
SSB-IOX1	4	1	2	2

SPECIFICATIONS

GENERAL

NETWORKING

- ▼ **Communications protocol:** STATbus
- ▼ **Wiring:** 2- or 4-wire (device dependent), twisted pair
- ▼ **Network configuration:** multidrop bus

TERMINATIONS

- ▼ Pluggable terminal blocks for inputs and/or outputs, power and network connection.

OPERATING ENVIRONMENT

- ▼ **temperature range:** 32-122°F (0-50°C)
- ▼ **humidity range:** 5-80% RH, non-condensing

AGENCY APPROVALS

- ▼ UL listed 916, Management Equipment, Energy (PAZX) (pending)
- ▼ FCC rules Part 15 Class B Computing Device (pending)
- ▼ UL Recognized 873, Component-Temperature Indicating and Regulating Equipment
- ▼ Complies with CE directives and standards (XAPX2) (pending)

SSB-F11

I/O

- ▼ One (1) 12-bit Universal Input (interpolated to a 16-bit value)
- ▼ Selectable 0-5 VDC, 0-10 VDC, 0-20 mA or 0-250 kΩ input range. All ranges can be interpreted as a digital signal.

POWER REQUIREMENTS

- ▼ None

DIMENSIONS

- ▼ **size:** 3.02 x 1.41 x .95in. (7.67 x 3.58 x 2.41cm)
- ▼ **shipping weight:** .04 lb. (.018kg)

SSB-UI1, SSB-AO1, SSB-DI1

I/O

- ▼ One (1) 24-bit Universal Input (SSB-UI1)
- ▼ One (1) Analog Output, Selectable 0-10 VDC or 0-20 mA output range (SSB-AO1)
- ▼ One (1) Digital Input (SSB-DI1)

POWER REQUIREMENTS

- ▼ 24VAC, 50/60 Hz, 1 A (max)

DIMENSIONS

- ▼ **size:** 4.2 x 4.2 x 1.0 in. (10.67 x 10.67 x 2.54cm)
- ▼ **shipping weight:** .50 lb. (.23 kg)

SSB-DO1, SSB-DO1-I, SSB-DO2, SSB-DO2-I

I/O

- ▼ One (1) Digital Output (SSB-DO1)
- ▼ One (1) Digital Output, One (1) Dry Contact Digital Input (SSB-DO1-I)
- ▼ Two (2) Digital Outputs (SSB-DO2)
- ▼ Two (2) Digital Outputs, Two (2) Dry Contact Digital Input (SSB-DO2-I)

POWER REQUIREMENTS

- ▼ 24VAC, 50/60 Hz, 1.25 A (max)

DIMENSIONS

- ▼ **size:** 6.7 x 3.3 x .81 in. (17.02 x 8.38 x 2.06 cm)
- ▼ **shipping weight:**
 - ▼ .56 lb. (.25 kg) (SSB-DO2, SSB-DO2-I)
 - ▼ .50 lb. (.23 kg) (SSB-DO1, SSB-DO1-I)

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