

RIOX-5

INCREASED POINT COUNT

RIOX-5 input/output expansion modules are used to increase the point count of StarGate™-5 controllers, enabling the integration of additional StarWatch™ components and sensors. Through direct, on-board connections, up to seven RIOX-5 units can be added to a single StarGate-5, with each module providing eight additional status inputs and eight relay outputs. When added to the eight inputs and eight outputs provided on a host StarGate-5 unit, the use of RIOX-5 boards brings the total possible point count associated with one StarGate-5 to 64 inputs and 64 outputs.

All inputs are tamper protected and can detect normal, alarm, tamper open, and tamper short conditions on the monitored line. LEDs are utilized to indicate the signal condition and can be used for diagnostic purposes. Software configuration allows for normally open or normally closed contacts to represent the normal condition. Outputs are provided with relays from Form C contacts, with link selection allowing outputs to be configured as normally open or normally closed.

Enhancing ease of maintenance and upgrade, all connections are provided with a plug-in terminal block, eliminating the need to disconnect wiring.



The modular design of the RIOX-5 unit allows system engineers to directly match the input/output point requirements of specific applications without the need to incorporate excessive equipment

KEY FEATURES

- Eight tamper-protected inputs
- Eight Form C relay outputs, configurable as normally open or normally closed
- Capable of expanding the I/O capacity of StarGate-5 controllers to a maximum of 64 inputs and 64 outputs
- All connections to StarGate-5 units via plug-in terminal blocks
- Diagnostic LED indication of all alarm points





STARWATCH™

SMS

CONNECTIONS

2-wire power

2-wire CANBUS

StarGate-5 • 20 pin PC board connector between RIOX-5 and StarGate-5

I/O • 48 pin pluggable terminal block for I/O connection, available in screw-in or tool-less IDC

MEASUREMENTS / COMMANDS

Inputs

- 8 on-board tamper protected inputs, monitored for line impedance
- LED indication of sensor condition
- Tamper short: resistance < 950Ω
- Normal: resistance between 950 and 1500Ω
- Alarm: resistance between 1500 and 2500Ω
- Tamper open: resistance > 2500Ω

Outputs

- 8 relay outputs
- Form C contact rated for 5A at 100VDC
- User selection of normally open or normally closed contact

TECHNICAL SPECIFICATIONS

POWER

Input

- All power supplied by host StarGate-5
- 12VDC at 300mA

Output

- 250mA maximum per sensor
- 1.5A total sensor power from on-board StarGate-5
- External PSU options available

ENVIRONMENTAL

Operating • -20 to +70°C

Storage • -20 to +70°C

Humidity • 5 to 95% non-condensing



CONTACT

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