Relay / Input / Output Transformer-Balanced Module



Model RIO1S

Description Bogen's RIO1S is a multi-functional module with a priority-controlled relay contact, transformer-balanced input, transformer-balanced output, and an RJ11 output for direct connection to the override input of a zone paging system.

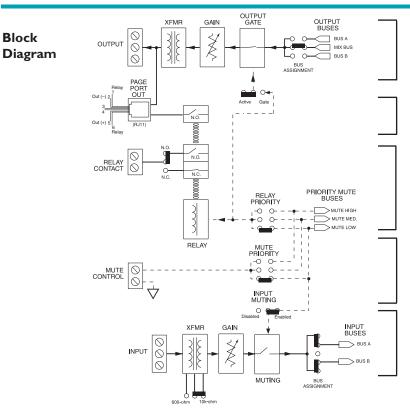
The RIO1S provides a convenient way to integrate a Power Vector amplifier with a PCM zone paging system, allowing full use of the Power Vector's priority structure in zone paging applications for more sophisticated paging capabilities.

- Transformer-isolated, balanced line-level input
- 600-ohm or 10k-ohm (jumper selectable) input impedance
 - Transformer-isolated, balanced line-level output
 - 8-ohm, 0.75W output

Features

- Input and output level controls
- Relay responds to jumper selectable priority level
- N.O. or N.C. jumper-selectable relay contact

- External control of priority muting buses
- Input can be muted from higher priority modules, with signal fade back
- Output (normally gate) can be synched with priority relay operation
- Output gating can be defeated via jumper
 - RJ11 connection with line output and dedicated N.O. relay contact (allows easy connection to O/R port of Bogen telephone paging interfaces)



Output

• Jumper-selectable, transformer-balanced output with gain and priority gating (synched with prioritized relay)

Page Port Output

 Specialized PCM2000 / Page Port-type output with audio signal and dedicated N.O. contact (RJ11 jack)

Relay Contact

• Prioritized Relay (N.O. or N.C. contact) allows external devices to be activated when specific priority levels are met

Mute Control

• External control of priority mute buses

Input

• Transformer-balanced (600-ohm or 10k-ohm) input with gain and defeatable priority mute



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Technical Specifications

Feature	Input	Output
Gain	-11 dB to +19 dB	OFF to 0 dB/+7 dB (8-ohm/600-ohm load)
Frequency Response	10 Hz to 40 kHz (+0/-3 dB)	30 Hz to 20 kHz (+0/0.5 dB) with 8-ohm load, 0.75W
Distortion	<0.3% 20 Hz to 20 kHz @ 1V	<1% w/8-ohm load, 0.75W (30 Hz - 20 kHz)
Impedance	600 ohms/10k ohms (jumper selectable), balanced	8 ohms minimum, balanced
Priority	Mute Low (jumper defeatable)	Three Levels (normally gated)
S/N (20 Hz - 20 kHz)	-75 dBV	
Muting	>50 dB	
Controls	Level IN, Level OUT	
Connector(s)	Screw terminals and RJ11	
Power	± 24V DC	
Product Weight	4.1 oz.	
Dimensions	1 ³ / ₈ " W x 3 ¹ / ₈ " H x 3 ¹ / ₂ " D	

Architect &
EngineerThe module shall be a Bogen Model RIO1S
relay/input/output transformer-balanced module.TSpecificationsInputRThe RIO1S shall have a transformer-isolated, balanced
line-level input. The input connection shall be madeC

via a screw terminal connector.

It shall have a jumper selectable input impedance of 600 ohms or 10k ohms. It shall include a level control with a gain range from -11 dB to +19 dB.

The input shall be mutable by higher priority modules with signal fade back. Muting shall be jumper defeatable.

The module's input signal can be jumper-configured to Bus A, Bus B, or both.

Output

The RIO1S shall have a transformer-isolated, balanced line-level output. The output can be selected to turn on when a user-selected priority level is met or to be on continuously.

The output connection shall be made via a screw terminal connector. It shall include a level control with a gain control range from OFF to 0 dB/+7 dB (8-ohm / 600-ohm load).

The output shall be capable of being loaded down to 8 ohms/0.75W.

The module's output signal can be jumper-configured from either Bus A, Bus B, or Mix Bus.

Page Port Output

The page port output connection shall be made via an RJ11 connector. It shall contain a dedicated N.O. contact and output signal.

Relay Contact

The RIO1S shall provide a relay contact that will respond to any of three priority levels (jumper selectable). The relay connection shall be made via a screw terminal connector.

The relay contact (N.O. or N.C.) shall have a rating of 0.6A @ 120V AC or 2A @ 30V DC.

Mute Control

The RIO1S shall provide external access to each of the priority buses (jumper selectable) through the mute control. The mute control connection shall be made via a screw terminal connector.

The RIO1S shall measure $1\frac{3}{6}$ " W x $3\frac{1}{6}$ " H x $3\frac{1}{2}$ " D and shall weigh 4.1 ounces.



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