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› BARRINS GLG Signal Isolator Instruction Manual (Model: 0-10mA Input, DC24V Power Supply, 0-5V Output, 2 Input 2 Output)

## BARRINS 0-10MA INPUT\_DC24V POWER SUPPLY\_0-5V OUTPUT 2 Input 2 Output

# BARRINS GLG Signal Isolator Instruction Manual

Model: 0-10mA Input, DC24V Power Supply, 0-5V Output, 2 Input 2 Output

### INTRODUCTION

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The BARRINS GLG Signal Isolator is designed to provide isolated power distribution for transmitters, while simultaneously isolating and converting current signals for control systems such as PLCs and DCS. This device ensures signal integrity and system protection through its advanced isolation technology.

It supports common current sources, 2-wire, and 3-wire input terminals. The input, output, and power circuits are mutually isolated using highly efficient magnetolectric isolation technology. The isolator operates on a DC 24V or AC 85-265V power supply and is designed for standard 35mm DIN rail mounting, offering strong anti-interference capabilities and versatility.

### SETUP AND INSTALLATION

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Before installation, ensure the power supply is disconnected to prevent electrical hazards.

- Mounting:** Mount the GLG Signal Isolator onto a standard 35mm DIN rail. The device is designed for independent mounting.
- Input Wiring:** Connect the input signal wires to the designated input terminals. This model supports 2 inputs. Refer to the wiring diagram for specific terminal connections.
- Output Wiring:** Connect the output signal wires to the designated output terminals. This model provides 2 outputs. Refer to the wiring diagram for specific terminal connections.
- Power Supply Connection:** Connect the power supply (DC 24V or AC 85-265V) to the power terminals. Ensure correct polarity for DC power.

Refer to the following images for visual guidance on installation and wiring:



Figure 1: Wiring diagram for the GLG Signal Isolator, illustrating terminal connections for input, output, and power.



Figure 2: The GLG Signal Isolator securely mounted on a standard 35mm DIN rail.

## OPERATION

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Once correctly installed and powered, the GLG Signal Isolator will automatically begin processing signals. It converts and isolates the input signal (0-10mA for this model) into the specified output signal (0-5V for this model) for your control system. No user configuration is typically required for standard operation once the correct model is selected for your application.

## MAINTENANCE

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To ensure the longevity and reliable performance of your GLG Signal Isolator, follow these maintenance guidelines:

- Regularly inspect the device for any signs of physical damage, such as cracks or loose connections.
- Keep the isolator clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- Ensure the operating environment remains within the specified temperature and humidity ranges to prevent performance degradation.

## TROUBLESHOOTING

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If the GLG Signal Isolator is not functioning as expected, consider the following troubleshooting steps:

- **No Power:** Verify that the power supply is correctly connected and within the specified voltage range (DC 24V or AC 85-265V). Check power indicator lights if available.
- **Incorrect Wiring:** Double-check all input and output wiring for correct connections and polarity according to the wiring diagram.
- **Signal Mismatch:** Confirm that the input signal type and range (0-10mA) match the isolator's specifications and that the output device is compatible with the isolator's output (0-5V).
- **Environmental Factors:** Ensure the operating temperature and humidity are within the specified limits.
- If issues persist after performing these checks, consult a qualified technician or contact customer support.

## TECHNICAL SPECIFICATIONS

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Figure 3: Product label detailing specifications for the 2 Input 2 Output model.

Parameter	Value
Model	GLG (2 Input 2 Output, 0-10mA Input, DC24V Power Supply, 0-5V Output)
Power Supply	DC24V $\pm$ 10% or AC85-265V
Current Consumption	100mA (2 in 2 out, 24V power supply, output 20mA)
Input Signal	0-10mA
Input Burden	Current transformer CT0.2VA
Input Impedance	50 $\Omega$
Output Signal	0-5V
Output Load Resistance	$R_L \geq 500\Omega$ (output current signal); $R_L \geq 10K\Omega$ (output voltage signal)
Output Ripple	$\leq 0.5\%R_O$
Accuracy	DC; $\pm 0.1\%F.S.$
Respond Time	< 10ms
Temperature Drift	0.005%F.S./ $^{\circ}C$ (-20~+55 $^{\circ}C$ )
Isolation Intensity	1500V AC/1min (between input-output-power)
Insulation Resistance	$\geq 100M\Omega$ (between input-output-power)
Overload Capacity	Withstand double rating (continuous), 10 times rating (10s)

Working Temperature & Humidity	-20~+55°C, <80% humidity (non-condensing)
Storage Temperature & Humidity	<70% humidity (non-condensing)
Dimensions	110 x 114.5 x 22.5 mm
Item Weight	7.1 ounces

## **WARRANTY AND SUPPORT**

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This BARRINS product is covered by a standard manufacturer's warranty. Please refer to the product packaging or contact BARRINS customer service for detailed warranty information regarding terms and conditions.

For technical assistance, troubleshooting support, or any inquiries regarding your GLG Signal Isolator, please contact your supplier or BARRINS customer service through their official channels.