

Yokogawa EH0*B

Voltage Output Isolator Card

Product scope

- Transfers a standard 1 to 5 V command through an isolated channel.
- Presents a high input resistance to the upstream controller output.
- Drives receiving equipment whose input resistance is at least 2 kΩ.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Yokogawa EH0*B

Voltage Output Isolator Card

Product overview

Yokogawa EH0*B is a 1 to 5 V DC output isolator card for CENTUM signal paths. It reproduces one voltage command through an isolated low-resistance output for a load of 2 kΩ or greater.

EH0*B receives a 1 to 5 V DC command and transfers it across an isolated conditioning stage. The output maintains the same standard range with resistance no greater than 1 ohm for a suitably high-impedance load.

The isolator breaks direct electrical continuity between the control source and the receiving device. This supports stable analog command distribution where ground-potential differences might otherwise introduce offset or circulating current.

The receiving load must remain at or above 2 kΩ, and the off-state input path should be considered during maintenance tests. Substitution with a current-output card would change both signal type and field wiring.

Technical specifications

Input signal	1 to 5 V DC
Input resistance	1 MΩ; 100 kΩ when power is off
Output signal	1 to 5 V DC, one output
Output resistance	1 Ω maximum
Minimum load resistance	2 kΩ
Isolation	Input/output/power/ground isolated
Supply voltage	24 V DC ±10%
Maximum current consumption	50 mA
Operating temperature	0 to 50 °C
Relative humidity	5 to 90% RH, non-condensing
Dimensions	73 x 24 x 115 mm including knob
Mass	Approximately 70 g
Style code	B

EH0*B function and operating principle

Ordered configuration

The ordered card is a voltage-output isolator and does not generate transmitter loop power.

System role

Its isolated transfer stage reproduces the control command while separating source and load grounds.

Selection and installation

Signal type, load resistance and terminal polarity must all match the existing voltage-command circuit.

Functional path

- Transfers a standard 1 to 5 V command through an isolated channel.
- Presents a high input resistance to the upstream controller output.
- Drives receiving equipment whose input resistance is at least 2 k Ω .

Application scenarios

- Valve-positioner and actuator command paths can be isolated from the controller analog output.
- Recorder or indicator inputs can receive a clean 1 to 5 V signal without sharing the source ground.
- Legacy panels use the card where a standard voltage command must cross between different electrical references.

EH0*B engineering checks

Performance

- The output follows the 1 to 5 V input across the documented operating range.
- Output resistance remains no greater than 1 ohm under specified conditions.
- A load of 2 k Ω or greater preserves the intended transfer accuracy.

Interoperability

- The upstream device must provide a standard 1 to 5 V control signal.
- The downstream receiver must be a high-impedance voltage input rather than a current loop.
- Isolation permits equipment with different reference potentials to exchange the analog command.

Operating Environment

- The card operates from 0 to 50 °C in the supported signal-conditioner enclosure.
- Permitted humidity is 5 to 90% RH without condensation.
- The 24 V DC supply must remain within the documented $\pm 10\%$ range.

Critical technical note

Keep the receiving load for Yokogawa EH0*B at 2 k Ω or higher; a lower impedance can drive the isolated voltage output outside specification.

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