

Yokogawa EC0*A

Current Output Isolator Card

Product scope

- Isolates a 4 to 20 mA control command from its field load.
- Drives one current loop with as much as 750 Ω total burden.
- Detects an open output circuit for maintenance visibility.

Manufacturer source

Exact-model technical record

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

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Yokogawa EC0*A

Current Output Isolator Card

Product overview

Yokogawa EC0*A is a control-output isolator that accepts 4 to 20 mA and drives one isolated 4 to 20 mA field loop. Load-open detection supervises the output path for disconnected wiring.

EC0*A receives a standard 4 to 20 mA command through a 250 ohm equivalent input. Its isolated output recreates the current for a field load up to 750 ohms.

The conditioning stage separates the controller command circuit from the actuator or remote receiving loop. Integrated load-open detection lets the system recognize a broken or disconnected output path instead of treating it as an ordinary command value.

Available loop resistance, cable drop and receiver burden must be added before installation. A voltage-output isolator is not a direct substitute because the field device and diagnostics depend on a closed current loop.

Technical specifications

Input signal	4 to 20 mA DC
Equivalent input resistance	250 Ω
Output signal	4 to 20 mA DC, one output
Maximum output load	750 Ω
Load-open detection	Provided
Isolation	Input/output/power/ground isolated
Supply voltage	24 V DC $\pm 10\%$
Maximum current consumption	60 mA
Operating temperature	0 to 50 $^{\circ}\text{C}$
Relative humidity	5 to 90% RH, non-condensing
Dimensions	73 x 24 x 115 mm including knob
Mass	Approximately 70 g
Style code	A

EC0*A function and operating principle

Ordered configuration

The A-style execution is intended for current command isolation rather than voltage reproduction.

System role

It drives the receiving loop while supervising whether the load path remains electrically complete.

Selection and installation

Cable resistance, receiver burden and output polarity must be checked as one loop before service.

Functional path

- Isolates a 4 to 20 mA control command from its field load.
- Drives one current loop with as much as 750 Ω total burden.
- Detects an open output circuit for maintenance visibility.

Application scenarios

- Control-valve positioners can receive an isolated current command from the CENTUM output system.
- Remote analog recorders or converters can be driven across long field wiring within the burden limit.
- Output-circuit supervision helps maintenance identify a broken wire or disconnected field instrument.

EC0*A engineering checks

Control

- The channel transfers one 4 to 20 mA command to the field-side loop.
- A 750 ohm maximum burden accommodates receiver and cable resistance together.
- Load-open detection distinguishes a disconnected loop from a normal current command.

Diagnostics

- An open output path is detected by the conditioner electronics.
- Loop-current checks can separate wiring faults from controller command problems.
- Terminal polarity and receiver continuity are primary checks after an output alarm.

Integration

- The total burden must be calculated before the field loop is connected.
- Shield termination should follow the cabinet's established analog-grounding practice.
- The card requires a 24 V DC supply within $\pm 10\%$ for specified operation.

Critical technical note

Calculate total loop burden before installing Yokogawa EC0*A; cable and receiver resistance together must not exceed the 750 Ω output limit.

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