General Electric IC200ALG240

01 Isolated Analog Input Module / system role

Product function and operating context

Configuration assigns the range, scaling and diagnostic limits, allowing separate field circuits to be represented within one remote or controller-based I/O station.

Backplane logic power and the external analog supply are both required for normal field operation. The FLD PWR indicator is therefore a combined power indication. In current mode, the specified negative-terminal connections should be completed to obtain the intended accuracy.

Integration checkpoints

- Save input behavior settings
- Restore analog field power
- Verify mode-specific terminals
- Confirm live-data recovery

Channel separation	isolated field inputs for independent measurement circuits
Fault behavior	configurable default or retained value
Noise control	selected mains-frequency rejection and deliberate shield grounding

Fault behavior is configurable: a failed field supply can produce a default value or retain a last state. Alarm thresholds and physical over-range detection are different mechanisms. The receiving application must recognize a substituted or held value rather than assuming it remains a current process measurement.

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02 Technical operating envelope

Inputs	8 individually isolated
Input modes	4–20 mA or ±10 V per channel
Converter resolution	16 bits
External power	19.5–30 V DC
Field current demand	100 mA maximum plus load currents

Accuracy at 25 °C	±0.1% full scale maximum
Update at 50 Hz filter	About 20 ms maximum per module
Update at 60 Hz filter	About 16.7 ms maximum per module
Channel isolation	250 V AC continuous; 1500 V AC for 1 minute

Values retain their individual conditions and interface boundaries. Technical values apply to IC200ALG240 with the stated operating conditions. Check supplied revision and the configured installation.

What determines whether IC200ALG240 reports an open current loop?

Open-wire detection depends on the configured low end of the range as well as the measured lack of current. Verify the range and fault-reporting settings together.

How should the IC200ALG240 filter be selected for a 60 Hz installation?

Choose the appropriate line-frequency rejection while accounting for update time. A filter selected for another mains frequency can provide poorer interference rejection.

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03 System integration and applications

Independent analog circuits

Use isolated channels where field measurement references must be separated.

VersaMax remote I/O

Pair the module with a supported carrier and configured CPU or network interface unit.

Mixed voltage and current acquisition

Assign each channel’s electrical mode and terminal arrangement to its source.

Fault-conditioned measurements

Use default or hold behavior together with diagnostics in the receiving control strategy.

System and supply context

The IC200ALG240 belongs to the VersaMax I/O arrangement with its specified field interfaces.

Application boundary

Applications must satisfy the module or transducer boundary and the actual controller, receiver or target conditions.

How can hold-last-state on IC200ALG240 conceal a failed transmitter supply?

The last accepted value can remain numerically plausible after the supply fails. Use diagnostics alongside the value so the program does not treat stale data as live measurement.

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04 Engineering selection decisions

Why can IC200ALG240 FLD PWR be off even when an external 24 V source is present?

The indication depends on both backplane logic power and field power. Check both supplies instead of interpreting it as a test of the external source alone.

Why are both negative input terminals connected together for IC200ALG240 current measurement?

The specified connection provides the intended current-range accuracy. Restore the current-mode terminal arrangement rather than copying a voltage-mode connection.

Does IC200ALG240 channel isolation remove the need to plan cable shields?

No. Isolation and interference control have different purposes. Use the intended grounding point and carrier provisions without creating unwanted shield-current paths.

Why can IC200ALG240 replacement require a configuration check even if the carrier key fits?

Mechanical keying does not restore range, scaling, filter or fault behavior. Compare the retained station configuration with the replaced module before accepting values.

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05 Configuration boundary and references

Lifecycle and support

The current production and manufacturer-support stage of IC200ALG240 is unconfirmed. Replacement planning must preserve the supported system and the supplied hardware execution.

Replacement assessment

Capture ranges, scaling, line-frequency filter, alarm limits and default/hold selections. Record the carrier and channel isolation arrangement.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

Emerson VersaMax I/O Modules, Power Supplies and Carriers, GFK-1504Q.

Related product navigation

- General Electric IC693CHS391N
- General Electric IC693MDL930

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries