Emerson IC695ALG608

01 Retain channel definitions

1. Prepare a channel worksheet that links physical terminals, signal mode, range and program destination. Identify the test connection for each enabled input before attaching a calibrator or changing the module configuration.

2. Compare the stored configuration with the terminal schedule channel by channel. A differential pair must remain associated with one intended measurement; do not accept two plausible single-ended readings as proof of the differential configuration.

Record to retain	Retain channel definitions
Circuit or system boundary	PACSystems RX3i

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02 Trace returns and shields

1. Verify the current-return jumpers or voltage reference arrangement against the selected mode. Terminate cable shields at the intended grounding provision rather than an unused signal terminal.

2. Measure the reference potential before applying a test signal. Check the actual current-return or voltage-reference path at the terminal block so a wiring error is not concealed by changing the engineering scaling.

Record to retain	Trace returns and shields
Circuit or system boundary	PACSystems RX3i

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03 Budget acquisition latency

1. Record filter frequency and active acquisition cycles. Check that the resulting scan period remains suitable for the control function before enabling automatic action.

2. Apply a known step and record both the raw channel update and the program response. Compare the observed delay with the selected filtering and task timing before using the channel in a time-sensitive alarm.

Record to retain	Budget acquisition latency
Circuit or system boundary	PACSystems RX3i

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04 Inject endpoint and fault signals

1. Apply calibrated signals at multiple points, then exercise the applicable open-circuit and threshold diagnostics under controlled conditions. Compare engineering values and status indications together.

2. Use a compatible calibrator to apply values near both selected endpoints, then perform the permitted fault simulation. Record raw value, engineering value and diagnostic status separately so each part of the channel path is verified.

Record to retain	Inject endpoint and fault signals
Circuit or system boundary	PACSystems RX3i

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05 Confirm data handling

1. Check floating-point or integer representation, alarm interpretation and restored terminal-block status. Retain the final configuration with the channel commissioning record.

2. Review the destination data type and the complete mapped field in the application. A sensible value at one test point is insufficient; compare several injected levels before accepting the program conversion and alarm logic.

Technical basis: Emerson PACSystems RX3i System Manual, GFK-2314AG.

Related product navigation

Emerson IC695CPE330

General Electric IC698RMX016

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