Emerson IC695ALG728

01 Record final-element behavior

Identify every connected final element and its permitted maintenance position. Agree the output test sequence with the operating team before changing commands, and distinguish channels connected to real equipment from channels connected to test loads.

Identify the receiving device safe state and obtain authorization for each commanded test level. Record whether an output command moves equipment or only changes a test load before enabling the channel.

Record to retain	Record final-element behavior
Circuit or system boundary	PACSystems RX3i

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02 Verify direct field power

Measure the external supply at the module terminal block and identify its return. Confirm that the source is not mistakenly routed only to backplane TB1.

Measure field voltage at the module with the intended output load connected. Check the common return as well as the supply conductor; a backplane connection does not substitute for the required analog field-power circuit.

Record to retain	Verify direct field power
Circuit or system boundary	PACSystems RX3i

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03 Check loop compliance

Review the complete current-loop resistance and the expected minimum supply. Include any HART connection equipment and receiving-device requirements.

Measure the voltage available across the complete current-loop load at the upper commanded current. Investigate wiring loss or excessive burden if the measured current stops following the command before the selected endpoint.

Record to retain	Check loop compliance
Circuit or system boundary	PACSystems RX3i

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04 Exercise analog and digital paths

Test low, middle and high analog commands after allowing the applicable settling time. Separately check HART device identity and variable updates.

Record the commanded analog value, measured electrical output and HART communication result as separate observations. Restore the intended device polling configuration after the test rather than leaving temporary diagnostic settings in service.

Record to retain	Exercise analog and digital paths
Circuit or system boundary	PACSystems RX3i

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05 Verify fail-response settings

Test the approved controller-stop or communication-loss response with the process protected. Restore channel diagnostics and confirm the final element returns to commanded operation.

Exercise the authorized transition to the configured fallback behavior and back to normal control. Verify the electrical output at the field connection, then confirm the receiving device reaches the intended condition.

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

Related product navigation

General Electric IC693ALG223

General Electric IC693ALG391

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