Emerson A6370D

01 Identify the three-channel assembly

1 Record monitor identities

Record all three monitor types, hardware and firmware revisions, and the backplane designation before removing a card.

2 Retain the approved configuration

Preserve sensor selection, measuring mode, function limits, current ranges, output logic and reset behavior in the controlled configuration record.

Monitor type	A6370D display version
Separate variant	A6370D/DP adds PROFIBUS DP
Assembly	Three matching monitor types

02 Prepare signal and power circuits

1 Compare the sensor interface

Match the connected pickup type to its configured input; do not use a missing VR sensor buffer as evidence of failed pulse acquisition.

2 Check supply at the assembly

Verify both feed circuits where redundancy is used, common return continuity and the intended supply protection.

System voltage	19–31.2 VDC
Supply capability	At least 30 W
Front Sens. with VR	No buffered signal

03 Verify downstream outputs

1 Test current interpretation

Apply an approved controlled input and compare both current channels with the selected ascending or descending range.

2 Differentiate pulse receivers

Check whether the receiver is attached to the isolated open-collector circuit or the front TTL point, then apply the matching electrical limits.

Current burden	≤500 Ω
Front TTL	0–5 V, 0–20 kHz
Isolated pulse	31.2 V maximum; 16 mA at 24 V

04 Exercise protection controls

1 Control the test sequence

Place the machine protection in its approved maintenance state before using Test value, Enable and Reset functions.

2 Verify the actual trip path

Test channel function outputs through the installed backplane and external logic, including the specified latch and reset sequence.

Low / high inputs	0–5 V / 13–31.2 V
Current error mode	Life Zero suppression to 0 mA when configured
Cooling boundary	+55 °C without; +65 °C with forced cooling

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05 Restore and hand over

1 Confirm final indications

Compare local display, function LEDs, Channel OK, current outputs and downstream trip response against the restored configuration.

2 Release controlled bypasses

Record test results and final settings, then remove maintenance overrides through the responsible protection personnel.

Technical basis: Emerson AMS 6300 SIS Operating Manual, MHM-97442 Rev. 2.09, October 2026.

Related product navigation

Emerson PR6423/000-010 CON021

Emerson PR6423/000-000 CON011

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