

Installation Identity and Scope

Emerson A6110 is a dual-channel shaft relative vibration monitor for AMS 6500 Classic protection systems. It conditions two eddy-current measurement channels and provides relay, analog and buffered outputs for machinery protection.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	A6110
Manufacturer	Emerson
Hardware type	Shaft Vibration Monitor
System family	AMS 6500 Classic Protection System
Official source	Protection Cards for AMS 6500 Classic Systems; November 2017

CONTROLLED ENGINEERING COPY

Record both channel scales, sensor types, alert delays and relay voting before replacing A6110. After installation, verify gap voltage, vibration response, 0/4–20 mA outputs and every enabled alarm path with a controlled test.

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A6110

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify A6110 and both installed channel assignments.
2	Place every affected protection function in the approved maintenance state.
3	Record probe type, scale, alert delay and relay logic before removal.
4	Measure and label both signal, common and shield connections.
5	Use ESD controls when handling the monitor and rack connectors.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	A6110
Physical interface	Two documented PR642x/CON measurement chains
Companion check	AMS 6500 Classic rack and A6740 relay logic if fitted
Configuration	Channel range, filter, delay and voting configuration
Functional proof	Two-channel vibration and relay proof test

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Channel identity	Record both probe and bearing locations.
Sensor system	Confirm PR642x and CON driver pairing.
Gap	Record stable DC gap voltage on each channel.
Range	Preserve full-scale settings and units.
Analog outputs	Verify 0/4–20 mA and 0–10 V scaling where used.
Buffered outputs	Check the diagnostic signal path.
Relays	Confirm alert delay and voting.
Dynamic proof	Inject a controlled vibration signal into each channel.

CONFIGURATION BOUNDARY

Record both channel scales, sensor types, alert delays and relay voting before replacing A6110. After installation, verify gap voltage, vibration response, 0/4–20 mA outputs and every enabled alarm path with a controlled test.

Expected Technical Values

PARAMETER	VALUE
Complete model	A6110
Monitored variable	Shaft relative vibration
Channels	2
Compatible sensors	PR6422, PR6423, PR6424, PR6425 with CON drivers

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	A6110 and both channel duties are recorded.
Static values	Gap and analog outputs are credible.
Dynamic response	Both channels track the injected vibration signal.
Protection	Configured alarm and relay paths operate correctly.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
Which measurement does Emerson A6110 protect?	A6110 is the dual-channel monitor for shaft relative vibration.
Which probes can feed Emerson A6110?	The official card reference lists PR6422, PR6423, PR6424 and PR6425 systems with their corresponding CON drivers.
What measurement spans can Emerson A6110 be configured for?	The documented span extends from 0–400 mV at the smallest setting to 0–8000 mV at the largest.
Which retransmission outputs are available from Emerson A6110?	The monitor supports 0/4–20 mA and 0–10 V outputs, plus buffered sensor signals.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 149844-01	View Bently Nevada 149844-01
Bently Nevada 149992-02	View Bently Nevada 149992-02
Bently Nevada 162381-064-028-50-05	View Bently Nevada 162381-064-028-50-05
Bently Nevada 162381-078-027-50-05	View Bently Nevada 162381-078-027-50-05
Bently Nevada 162381-138-040-90-05	View Bently Nevada 162381-138-040-90-05
Bently Nevada 16710-10	View Bently Nevada 16710-10
Bently Nevada 16710-14	View Bently Nevada 16710-14
Bently Nevada 16710-16	View Bently Nevada 16710-16

MANUFACTURER SOURCE RECORD

Protection Cards for AMS 6500 Classic Systems
Protection Cards for AMS 6500 Classic Systems; November 2017

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	A6110 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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