

Installation Identity and Scope

Emerson A6210 is a dual-channel monitor for thrust position, differential expansion and rod position in AMS 6500 Classic systems. Each channel accepts a compatible eddy-current sensor system and can be configured for the documented measurement mode.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	A6210
Manufacturer	Emerson
Hardware type	Thrust Position Monitor
System family	AMS 6500 Classic Protection System
Official source	Protection Cards for AMS 6500 Classic Systems; November 2017

CONTROLLED ENGINEERING COPY

Preserve the selected thrust, differential-expansion or rod-position mode and its mechanical zero before replacing A6210. Verify sensor gap, direction, zero reference and every alarm output after the monitored shaft or rod is in its approved condition.

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A6210

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Confirm A6210 and the configured mode for each channel.
2	Place thrust or expansion protection in the approved maintenance state.
3	Record mechanical zero, gap voltage, polarity and alarm limits.
4	Label both sensor, common and shield connections.
5	Protect the rack connector and use ESD controls.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	A6210
Physical interface	Two documented PR642x measurement chains
Companion check	Axial reference surface and mechanical zero record
Configuration	Mode, polarity, alarm delay and voting configuration
Functional proof	Controlled axial-position 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
Mode	Record thrust, differential-expansion or rod-position duty.
Zero	Capture mechanical reference and electrical gap.
Polarity	Document positive movement direction.
Sensors	Verify both PR642x systems and extension wiring.
Outputs	Check buffered and 0–10 V gap outputs.
Limits	Restore alarm levels and delay.
Movement	Apply a known axial displacement.
Protection	Prove each enabled alarm and relay.

CONFIGURATION BOUNDARY

Preserve the selected thrust, differential-expansion or rod-position mode and its mechanical zero before replacing A6210. Verify sensor gap, direction, zero reference and every alarm output after the monitored shaft or rod is in its approved condition.

Expected Technical Values

PARAMETER	VALUE
Complete model	A6210
Channels	2
Measurement modes	Thrust position; differential expansion; rod position
Compatible sensors	PR6422, PR6423, PR6424, PR6425

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	A6210 and both channel modes are recorded.
Reference	Mechanical zero and polarity are restored.
Response	Displayed and analog positions follow known movement.
Protection	All configured axial-position alarms operate correctly.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
Which variables can Emerson A6210 measure?	It can be configured for thrust position, differential expansion or rod position.
How many independent inputs does Emerson A6210 provide?	A6210 has two measurement channels.
Which transducer families are documented for Emerson A6210?	The reference lists PR6422, PR6423, PR6424 and PR6425 eddy-current systems.
What is the Emerson A6210 buffered-signal range?	The buffered sensor signal is documented from -1 to -24 V with input impedance above 100 k Ω .

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 177230-01-01-05	View Bently Nevada 177230-01-01-05
Bently Nevada 177230-01-01-CN	View Bently Nevada 177230-01-01-CN
Bently Nevada 177230-01-02-05	View Bently Nevada 177230-01-02-05
Bently Nevada 177230-01-02-CN	View Bently Nevada 177230-01-02-CN
Bently Nevada 177230-02-01-05	View Bently Nevada 177230-02-01-05
Bently Nevada 18622-030-01	View Bently Nevada 18622-030-01
Bently Nevada 18745-03	View Bently Nevada 18745-03
Bently Nevada 18745-04	View Bently Nevada 18745-04

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	A6210 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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