

Installation Identity and Scope

Emerson A6220 is a dual-channel eccentricity vibration monitor for slow-roll and rotor eccentricity measurements in the AMS 6500 Classic system. It processes compatible eddy-current sensor signals over a low-frequency measurement band.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	A6220
Manufacturer	Emerson
Hardware type	Eccentricity Monitor
System family	AMS 6500 Classic Protection System
Official source	Protection Cards for AMS 6500 Classic Systems; November 2017

CONTROLLED ENGINEERING COPY

Retain the slow-roll reference, peak-to-peak scaling and continuous-gap setup when replacing A6220. Verify both sensor gaps and test the configured minimum, maximum and eccentricity outputs at a controlled shaft condition.

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A6220

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify A6220 and both eccentricity probe locations.
2	Place affected startup and protection functions in maintenance state.
3	Record slow-roll reference, probe gaps and shaft rotational condition.
4	Preserve peak-to-peak, minimum, maximum and continuous-gap settings.
5	Handle the monitor with ESD controls.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	A6220
Physical interface	Two PR642x eccentricity measurement chains
Companion check	Known slow-roll or turning-gear condition
Configuration	Range, processing and alarm configuration
Functional proof	Slow-roll eccentricity acceptance record

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
Probe identity	Record both eccentricity locations.
Gap	Capture continuous gap on each channel.
Supply	Verify nominal -26.7 VDC sensor power.
Processing	Restore peak-to-peak, minimum and maximum functions.
Range	Preserve the configured mV peak span.
Output	Verify 0/4–20 mA scaling and load.
Slow roll	Compare readings at a controlled condition.
Alarm	Prove enabled eccentricity protection logic.

CONFIGURATION BOUNDARY

Retain the slow-roll reference, peak-to-peak scaling and continuous-gap setup when replacing A6220. Verify both sensor gaps and test the configured minimum, maximum and eccentricity outputs at a controlled shaft condition.

Expected Technical Values

PARAMETER	VALUE
Complete model	A6220
Channels	2
Measured variable	Eccentricity vibration
Compatible sensors	PR6422, PR6423, PR6424, PR6425

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	A6220 and both probe positions are recorded.
Static values	Supply and continuous gaps are credible.
Slow-roll result	Minimum, maximum and peak-to-peak values are repeatable.
Protection	Outputs and configured alarms operate correctly.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What frequency band is processed by Emerson A6220?	The official card reference gives an input band of 0.017–70 Hz for eccentricity measurement.
Which values can Emerson A6220 calculate during slow roll?	A6220 provides peak-to-peak eccentricity, minimum position, maximum position and continuous gap.
What sensor supply is provided by Emerson A6220?	The nominal supply is -26.7 VDC at 20 mA, with 35 mA maximum.
Which probes are supported by Emerson A6220?	The card reference lists PR6422, PR6423, PR6424 and PR6425 systems.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 190501-12-00-02	View Bently Nevada 190501-12-00-02
Bently Nevada 190501-12-00-04	View Bently Nevada 190501-12-00-04
Bently Nevada 190501-12-99-04	View Bently Nevada 190501-12-99-04
Bently Nevada 200150-02-CN	View Bently Nevada 200150-02-CN
Bently Nevada 200150-06-CN	View Bently Nevada 200150-06-CN
Bently Nevada 200150-09-CN	View Bently Nevada 200150-09-CN
Bently Nevada 200150-14-05	View Bently Nevada 200150-14-05
Bently Nevada 200150-09-05	View Bently Nevada 200150-09-05

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	A6220 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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