

A6220

Eccentricity Monitor

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.

BRAND	Emerson	ORIGIN	USA
MODEL	A6220	PRODUCT	Eccentricity Monitor
FAMILY	AMS 6500 Classic Protection System	SOURCE	Protection Cards for AMS 6500 Classic Systems; November 2017

MANUFACTURER SOURCE RECORD

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

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Product Overview

SYSTEM FUNCTION

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.

FUNCTION 1

Measures low-frequency rotor eccentricity on two channels

FUNCTION 2

Supports peak-to-peak, minimum and maximum processing

FUNCTION 3

Supplies compatible eddy-current sensor systems

FUNCTION 4

Provides continuous gap and 0/4–20 mA outputs

TECHNICAL NOTE

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.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Complete model	A6220
Channels	2
Measured variable	Eccentricity vibration
Compatible sensors	PR6422, PR6423, PR6424, PR6425
Input band	0.017–70 Hz
Measurement range	0–400 mV peak to 0–8000 mV peak
Sensor supply	-26.7 VDC nominal; 20 mA nominal, 35 mA max
Analog output	0/4–20 mA; load below 500 Ω
Analog accuracy	±1%
Functions	Peak-to-peak, minimum, maximum and continuous gap

ENGINEERING 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.

Acceptance Path

1 IDENTITY

A6220 and both probe positions are recorded.

2 STATIC VALUES

Supply and continuous gaps are credible.

3 SLOW-ROLL RESULT

Minimum, maximum and peak-to-peak values are repeatable.

4 PROTECTION

Outputs and configured alarms operate correctly.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Slow-roll eccentricity testing	Quantifies rotor bow during turning-gear operation.
Turbine startup monitoring	Tracks eccentricity as speed rises from slow roll.
Rotor storage checks	Compares minimum and maximum shaft position during controlled rotation.
Eccentricity channel replacement	Restores a two-channel A6220 without changing the recorded reference setup.

Model-Specific FAQ - Part 1

QUESTION	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.

FAQ, Related Products and Source

QUESTION	ANSWER
What is the largest documented Emerson A6220 measurement span?	The largest stated range is 0–8000 mV peak; the smallest is 0–400 mV peak.
What load limit applies to the Emerson A6220 current output?	The 0/4–20 mA output requires a load below 500 Ω .
Why is slow-roll condition recorded for Emerson A6220?	Eccentricity depends on rotor condition and rotational reference, so a different turning state can change the minimum, maximum and peak-to-peak result.
How is Emerson A6220 accepted after replacement?	Confirm sensor supply and gaps, rotate under a controlled slow-roll condition, compare minimum/maximum/peak-to-peak values and prove outputs and enabled alarms.

MANUFACTURER SOURCE RECORD

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

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 200150-14-CN	View Bently Nevada 200150-14-CN
Bently Nevada 200150-22-CN	View Bently Nevada 200150-22-CN
Bently Nevada 200151-20-03-00	View Bently Nevada 200151-20-03-00
Bently Nevada 200151-60-03-00	View Bently Nevada 200151-60-03-00
Bently Nevada 200151-60-03-10	View Bently Nevada 200151-60-03-10
Bently Nevada 200152-15-00	View Bently Nevada 200152-15-00
Bently Nevada 200152-15-10	View Bently Nevada 200152-15-10
Bently Nevada 200155-18-CN	View Bently Nevada 200155-18-CN

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