

A6120

AMS 6500 dual-channel case-seismic vibration monitor

CONTROLLED ENGINEERING COPY

Record both channel configurations, filters, ranges, sensor lifting currents and alarm logic; after insertion, verify raw signal, analog outputs, diagnostics and protection voting before service.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	A6120
Manufacturer part	A6120
Hardware type	2 independent
System family	AMS 6500 machinery protection system



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01 PRE-INSTALLATION PLAN

- 1

Confirm the complete A6120 identity and assigned AMS 6500 rack slot before work.
- 2

Place both monitored machines or channels in the approved maintenance and bypass state.
- 3

Record sensor type, filter band, measuring range, lifting current and alarm settings for both channels.
- 4

Use ESD controls and protect the 3U card edge and front-panel connectors during handling.
- 5

Confirm PR9266/PR9267/PR9268 wiring polarity and differential-input continuity before insertion.

MATCHED HARDWARE

- AMS 6500 system rack
- PR9266, PR9267 or PR9268 sensors
- A6500-UM universal measurement card platform
- Relay, analog-output and CSI interface connections

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	A6120 / A6120 recorded
Physical interface	AMS 6500 system rack
Companion check	PR9266, PR9267 or PR9268 sensors
Functional proof	Processes two independent case-seismic channels
Application test	Turbine case-vibration protection

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Monitor channels	2 independent
Input type	Electrodynamic differential
Compatible sensors	PR9266; PR9267; PR9268
Input resistance	>100 kOhm
Input voltage range	-5 to +15 V DC
Lower cutoff	1 Hz or 5 Hz
Upper cutoff	50 to 2000 Hz adjustable
Velocity RMS metric range	5 to 100 mm/s
Displacement metric range	+/-25 to +/-500 um
Velocity RMS English range	0.197 to 3.937 in/s
Displacement English range	+/-0.984 to +/-19.685 mils
Standard frequency range	10 to 1000 Hz
Selectable frequency bands	5-50; 10-50; 50-1000; 50-1600 Hz
Lifting-coil current	0 to 8 mA in 40 uA steps

FIELD NOTE

Record both channel configurations, filters, ranges, sensor lifting currents and alarm logic; after insertion, verify raw signal, analog outputs, diagnostics and protection voting before service.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	A6120 / A6120 recorded
Physical interface	AMS 6500 system rack
Companion check	PR9266, PR9267 or PR9268 sensors
Functional proof	Processes two independent case-seismic channels
Application test	Turbine case-vibration protection

04 RETURN-TO-SERVICE RECORD

- ☐
- Restore only the approved channel database and verify card plus rack diagnostics after hot-swap.
- ☐
- Check buffered raw output and the configured 0/4-20 mA or 0-10 V output on each channel.
- ☐
- Prove alarm, relay and shutdown action with controlled test signals before removing bypasses.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	A6120
INSTALLED POSITION	Documented AMS 6500 machinery protection system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
7379A31G04	Related Emerson product	View 7379A31G04 page
KJ3224X1-EA1-12P4367X022	Related Emerson product	View KJ3224X1-EA1-12P4367X022 page
FSROC-EXP-EXP	Related Emerson product	View FSROC-EXP-EXP page
A6560	Related Emerson product	View A6560 page
A6312-06	Related Emerson product	View A6312-06 page
IC695CPE330	Related Emerson product	View IC695CPE330 page
A6210	Related Emerson product	View A6210 page
A6110	Related Emerson product	View A6110 page

SOURCE IDENTIFIERS

Emerson AMS 6500 Protection Cards Classic Reference Manual
A6120 section, November 2017

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