

PR9268-301-100

PR9268 electrodynamic velocity sensor

CONTROLLED ENGINEERING COPY

Align the sensing axis horizontally, maintain full base contact, support the five-metre cable and verify polarity plus channel scaling before automatic protection is restored.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR9268-301-100
Manufacturer part	PR9268-301-100
Hardware type	Horizontal; up to 100 degC
System family	PR9268 horizontal case-seismic measurement



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01 PRE-INSTALLATION PLAN

- 1

Confirm the full PR9268-301-100 marking, horizontal measuring orientation and assigned machine location before removal.
- 2

Place the monitored machine and protection logic in the approved maintenance state before sensor work.
- 3

Use the three M6 through bores or M4 blind-hole threads without exceeding the documented 10 mm blind-thread depth.
- 4

Support the 5 m armored cable and maintain at least the documented 35 mm bending radius.
- 5

Preserve the measuring axis and housing contact surface; do not introduce tilt, rocking or loose mounting.

MATCHED HARDWARE

- AMS 6500 A6120 or compatible monitor
- Horizontal machine-case mounting point
- Field terminal and shield arrangement
- Velocity alarm and trend configuration

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	PR9268-301-100 / PR9268-301-100 recorded
Physical interface	AMS 6500 A6120 or compatible monitor
Companion check	Horizontal machine-case mounting point
Functional proof	Designed for horizontal measuring axes
Application test	Horizontal turbine casing vibration

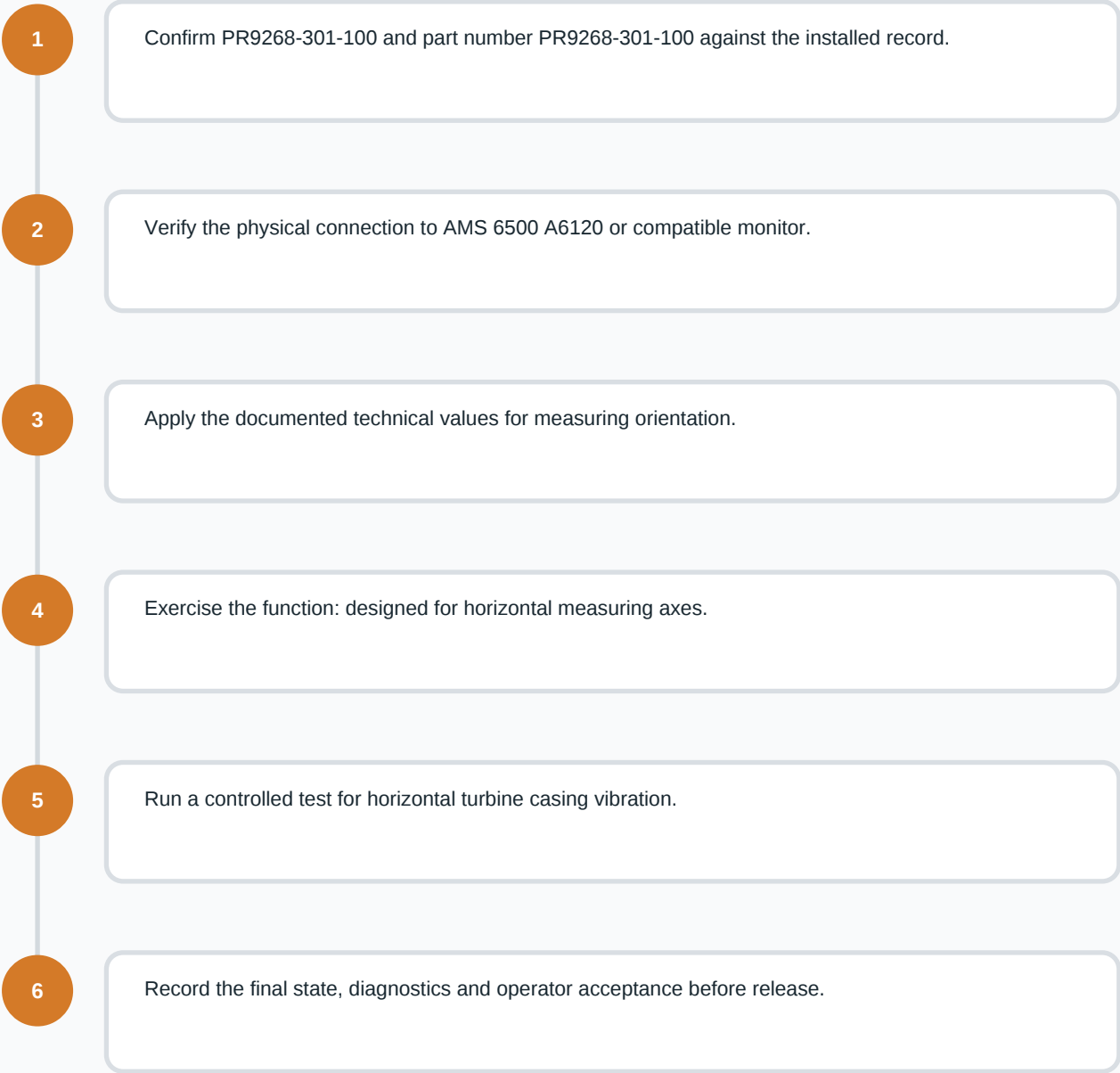
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Measuring orientation	Horizontal; up to 100 degC
Cable construction	Armored
Cable length	5 m
Cable termination	Open ends
Frequency range	4 to 1000 Hz
Natural frequency	4.5 +/-0.75 Hz at 20 degC
Sensitivity	28.5 mV/(mm/s) +/-5%
Damping	0.56 at 20 degC; 0.42 at 100 degC
Measuring-circuit resistance	1875 Ohm +/-10%
Insulation resistance	>1 MOhm at 500 V AC
Inductance	<90 mH
Capacitance to housing	<1.2 nF including cable
Maximum lifting/sinking current	1.8 mA
Operating temperature	-20 to +100 degC

FIELD NOTE

Align the sensing axis horizontally, maintain full base contact, support the five-metre cable and verify polarity plus channel scaling before automatic protection is restored.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	PR9268-301-100 / PR9268-301-100 recorded
Physical interface	AMS 6500 A6120 or compatible monitor
Companion check	Horizontal machine-case mounting point
Functional proof	Designed for horizontal measuring axes
Application test	Horizontal turbine casing vibration

04 RETURN-TO-SERVICE RECORD

- ☐
- Identify both open-ended cable conductors and preserve shield and polarity continuity to the monitor channel.

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VERIFICATION RECORD

PRODUCT IDENTITY	PR9268-301-100
INSTALLED POSITION	Documented PR9268 horizontal case-seismic measurement 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
A6120	Related Emerson product	View A6120 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
5X00121G01	Related Emerson product	View 5X00121G01 page
5X00119G01	Related Emerson product	View 5X00119G01 page
KJ3222X1-BA1-12P2532X122	Related Emerson product	View KJ3222X1-BA1-12P2532X122 page

SOURCE IDENTIFIERS

Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet
MHM-97479 Rev. 3.9, February 2025

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