

PR9268-202-100

PR9268 electrodynamic velocity sensor

Self-generated electrodynamic voltage proportional to vertical vibration velocity

PRODUCT SNAPSHOT

BRAND

Emerson

FAMILY

PR9268 vertical case-seismic measurement

PART

PR9268-202-100

ORIGIN / HS

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PRODUCT OVERVIEW

Self-generated electrodynamic voltage proportional to vertical vibration velocity

1

Designed for vertical measuring points

2

Uses an eight-metre armored connection

3

Maintains nominal 28.5 mV per mm/s sensitivity

4

Operates across 4 to 1000 Hz

SYSTEM COMPONENTS

AMS 6500 A6120 monitor

Vertical case mounting pad

Open-end cabinet termination

Approved velocity-channel configuration

TECHNICAL NOTE

Confirm vertical orientation, eight-metre cable routing, base flatness and conductor polarity; verify the channel at controlled machine speed before protection release.

TECHNICAL DATA

PARAMETER	VALUE
Measuring orientation	Vertical; up to 100 degC
Cable construction	Armored
Cable length	8 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

PARAMETER	VALUE
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
Ingress protection	IP55
Minimum cable bend radius	35 mm

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
KJ3222X1-BA1-12P2532X122	Related Emerson product	View KJ3222X1-BA1-12P2532X122 page
KJ4006X1-BD1	Related Emerson product	View KJ4006X1-BD1 page
KC4011X1-BZ1	Related Emerson product	View KC4011X1-BZ1 page
KC4011X1-BW1	Related Emerson product	View KC4011X1-BW1 page
KJ2201X1-BA1	Related Emerson product	View KJ2201X1-BA1 page
3900-02-10	Related Emerson product	View 3900-02-10 page
396P-02-12-55	Related Emerson product	View 396P-02-12-55 page
396P-08-10-55	Related Emerson product	View 396P-08-10-55 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Vertical pump casing vibration

Designed for vertical measuring points

Hydro-turbine support monitoring

Uses an eight-metre armored connection

Remote generator bearing points

Maintains nominal 28.5 mV per mm/s sensitivity

Long-route case-seismic protection

Operates across 4 to 1000 Hz

PRODUCT PRECAUTIONS

- 1 Confirm the full PR9268-202-100 marking, vertical 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 8 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.
- 6 Identify both open-ended cable conductors and preserve shield and polarity continuity to the monitor channel.
- 7 Measure the sensor circuit and insulation condition before reconnecting it to the monitoring input.
- 8 Run the machine under controlled conditions and verify velocity response, phase behavior and alarm logic.

ENGINEER FAQ

Q1 Does PR9268-202-100 match AMS 6500 A6120 monitor in a Vertical pump casing vibration installation?

Verify the complete PR9268-202-100 marking, the documented PR9268 vertical case-seismic measurement position and the installed AMS 6500 A6120 monitor before fitting the assembly.

Q2 How should PR9268-202-100 be wired when it must be designed for vertical measuring points?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for PR9268-202-100; then continuity-test the affected path.

Q3 Which PR9268 vertical case-seismic measurement records should be captured before removing PR9268-202-100?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with PR9268-202-100 before disconnection.

Q4 What controlled test confirms that PR9268-202-100 can use an eight-metre armored connection?

Apply the approved field or simulated stimulus, observe the PR9268 vertical case-seismic measurement indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Vertical case mounting pad condition should be checked when PR9268-202-100 reports an abnormal state?

Check the Vertical case mounting pad supply, seating and connection first, then compare channel diagnostics with the recorded PR9268-202-100 baseline.

Q6 Can PR9268-202-100 be moved directly into Hydro-turbine support monitoring without validating Approved velocity-channel configuration?

No. Confirm the Approved velocity-channel configuration, revision, connection scheme and PR9268 vertical case-seismic measurement configuration before transferring PR9268-202-100 to that duty.

Q7 What maintenance evidence is required after PR9268-202-100 is used for Remote generator bearing points?

Retain the nameplate record, corrective action, final diagnostics and a controlled remote generator bearing points functional-test result for PR9268-202-100.

Q8 How should PR9268-202-100 be returned to service in Long-route case-seismic protection?

Restore power under control, verify maintains nominal 28.5 mv per mm/s sensitivity, exercise the intended signal path and release PR9268-202-100 only after the PR9268 vertical case-seismic measurement remains in its approved operating state.

SOURCE Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet | MHM-97479
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