MMS6120

Epro / Dual-Channel Bearing Vibration Monitor

Epro MMS6120 supervises absolute bearing or casing vibration on two channels using compatible electrodynamic velocity transducers.

Product identity and system role

The monitor converts the selected velocity-sensor signals into configured vibration quantities for machine condition assessment. Each channel can be matched to a measurement point on a bearing housing or casing, where absolute vibration reflects the machine response.

The MMS 6000 architecture supports local parameterization and connection to a host diagnosis system. Measurement mode, range, filtering, warning and danger limits are part of the installed machine configuration rather than properties of the loose module alone.

Verified technical characteristics

System family	MMS 6000
Input channels	Two electrodynamic velocity-sensor channels
Sensor family	PR9266–PR9268 velocity sensors
Measurement modes	V RMS, S op and S peak-to-peak
Local interface	RS-232
Host interface	RS-485
Supply	18–31.2 V DC, 24 V nominal
Module operating temperature	0–65 °C

Engineering context

Turbine bearing vibration

Use a correctly oriented velocity sensor to monitor absolute motion at a turbine bearing housing.

Compressor casing vibration

Feed casing-motion measurements into an MMS 6000 machine-protection or condition-monitoring channel.

Pump vibration trend

Track supported velocity or displacement-derived quantities at a suitable pump measurement location.

Fan bearing monitoring

Assess bearing-housing vibration with the compatible PR926x sensor and configured monitor range.

Configuration and verification

Match sensor orientation: Confirm the electrodynamic transducer axis and mounting point for each channel.

Record mode and scaling: Preserve the selected vibration quantity, range and filter settings.

Preserve alarm logic: Document warning and danger values, delays and contact behavior.

Check loop wiring: Inspect sensor connections, shielding and channel assignments before energization.

Selected engineering questions

How is sensor orientation checked for MMS6120?
Compare the transducer sensitive axis with the intended machine vibration direction and the installation drawing.

What causes unequal channel readings on MMS6120?
Different mounting points, sensor orientation, cabling, configured range or actual machine motion can all contribute; compare them systematically.

How should alarm settings be transferred to MMS6120?
Record each channel's warning, danger, delay and contact configuration before service and load the approved values afterward.

Can a displacement probe replace a velocity sensor on MMS6120?
Not without an approved signal-conditioning arrangement. This module is designed for compatible electrodynamic velocity-transducer inputs.

What should be tested after fitting MMS6120?
Verify sensor signal, displayed measurement, alarm behavior and host value for each channel under controlled conditions.

How is communication loss distinguished from a sensor fault on MMS6120?
Check local channel indication and sensor wiring separately from the RS-485 host connection and addressing.

Source and application boundary

EPRO MMS 6120 Dual Channel Bearing Vibration Monitor, manufacturer-original data sheet.

Manufacturer-original MMS6120 data apply to the base monitor. Confirm the offered revision, paired sensors and alarm configuration against the installed system.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

EPRO PR6423/010-010	EPRO PR6423/10R-010
EPRO PR6424/010-010	EPRO PR6424/006-010

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Send the complete model and installed-system details when requesting a quotation.