MMS6410

Epro / Dual-Channel Inductive Displacement Measuring Amplifier

Epro MMS6410 measures displacement from inductive transducers on two independently configurable channels within the MMS 6000 monitoring system.

Overview

Each channel accepts a suitable half-bridge, full-bridge or differential-transformer arrangement. The monitor can report individual measurements or derive a sum or difference from the two channels, allowing an engineered measurement of relative expansion or paired mechanical movement.

The amplifier supports static displacement and dynamic signals up to the documented signal-frequency limit. The balance of sensor supply to ground helps suppress industrial disturbances. Zero adjustment and zero shift can be set independently of the selected measurement range.

Technical specification matrix

System family	MMS 6000
Input channels	Two independent inductive-sensor channels
Transducer configurations	Half bridge, full bridge or differential transformer
Signal frequency	Up to 100 Hz
Channel processing	Individual, sum or difference
Local interface	RS-232
System interface	RS-485
Example paired sensor	PR9350 inductive displacement family

Applications and system fit

Turbine thermal expansion

Process suitable PR9350-family transducer signals to follow casing or shaft expansion during startup and shutdown.

Differential expansion

Calculate the difference between two configured inductive displacement channels where the project uses paired measurement points.

Hydro-machine position Monitor slow mechanical displacement with a compatible bridge or differential-transformer sensor.	**Compressor mechanical movement** Provide displacement values to an MMS 6000 monitoring or diagnosis architecture.

Product precautions

Identify both transducers Record sensor models and the half-bridge, full-bridge or transformer wiring for each channel.	**Preserve zero settings** Capture range, zero adjustment and zero-shift configuration before exchanging the card.
Check channel mathematics Document any sum or difference calculation and its polarity.	**Review communications** Confirm RS-232 service access and RS-485 host addressing in the installed rack.

Source and application boundary

EPRO MMS 6410 Dual Channel Measuring Amplifier for Inductive Displacement Sensors, manufacturer-original data sheet.

Manufacturer-original MMS6410 data describe the base module. Confirm fitted revision and project configuration against the supplied unit.

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

Apter Power | Technical enquiry

sales13@apterpower.com | +86 18030235313

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