

Emerson - MMS 6000**MMS6410**

Dual-Channel Inductive Displacement Measuring Amplifier

Verified model data

Manufacturer	epro / Emerson
Part number	MMS6410
Product type	Dual-channel inductive displacement measuring amplifier
Sensor inputs	2 half-bridge, full-bridge or differential-transformer inputs
Supported sensor example	PR9350 inductive displacement sensor
Measuring frequency range	0 to 100 Hz
Carrier frequency	4.75 kHz
Sensor supply	4 Vrms; permissible load 120 to 600 Ω
Combined values	Independent, sum or difference processing
Power consumption	Maximum 8 W; 300 mA at 24 VDC
Product family	MMS 6000 Machine Monitoring System

Selection summary

EPRO MMS6410 is a two-channel amplifier for inductive displacement sensors in half-bridge, full-bridge or differential-transformer configurations.

It supports static and dynamic displacement as well as derived measurements such as angle, force or torsion, and can process channels independently or calculate sum and difference values.

Before replacement, record sensor type and wiring, carrier requirements, zero and zero shift, sensitivity, direction, channel combination, ranges, alarms, relays, outputs, bypasses and saved configuration.

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Additional verified data

Supply voltage	18 to 31.2 VDC; nominal 24 VDC
Configuration interface	RS232 on module front
System interface	RS485; up to 31 modules / 62 channels per bus
Module protection	IP00; front plate IP21
Operating temperature	0 to 65°C
Storage and transport temperature	-30 to 85°C
Relative humidity	5 to 95%, non-condensing
Dimensions	3.0 × 12.84 × 16.0 cm (W × H × D)
Net weight	Approximately 0.32 kg

Sensor Interface

- Confirm half-bridge, full-bridge or differential-transformer wiring
- Keep carrier load within the documented range
- Verify polarity and cable shield before calibration

Mechanical Setup

- Center the sensor across the required travel
- Avoid linkage side load and binding
- Establish the approved zero and zero-shift reference

Derived Values

- Calibrate each channel independently first
- Use sum or difference only for the documented geometry
- Test alarms and outputs at known mechanical positions

Application checkpoints

- Turbine casing or differential expansion measurement
- Valve, guide-vane and actuator position monitoring
- Force, angle or torsion measurement with compatible inductive transducers

Evidence boundary: Dimensions and net weight are taken from the exact-model original epro datasheet; gross packed weight is excluded.

Source basis: Original epro MMS 6410 data sheet 6010-00032.