

Emerson - MMS 6000**MMS6110**

Dual-Channel Shaft Relative Vibration Monitor

Verified model data

Manufacturer	epro / Emerson
Part number	MMS6110
Product type	Dual-channel shaft relative vibration monitor
Sensor inputs	2 independent eddy-current measuring-chain inputs
Supported sensor family	epro PR642x probes with matching converters
Power consumption	Maximum 6 W; 250 mA at 24 VDC
Order number	9100-00001
Mating connector	F48M; ordered separately
Product family	MMS 6000 Machine Monitoring System
Supply voltage	18 to 31.2 VDC; nominal 24 VDC
Configuration interface	RS232 on module front

Selection summary

EPRO MMS6110 is a two-channel monitor for shaft vibration measured relative to the probe mounting point.

It accepts two compatible eddy-current measuring chains and supplies configurable alarms, proportional outputs, buffered signals and machine-protection functions through the MMS 6000 rack.

Before replacement, record each probe and converter, bias gap, polarity, measuring range, filters, alarm logic, relay assignments, current outputs, bypass state and the saved module configuration.

Emerson - MMS 6000**MMS6110****Additional verified data**

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

Probe Compatibility

- Match every PR642x probe to its documented converter
- Verify gap voltage and polarity before scaling
- Retain the approved shielding and grounding arrangement

Protection Setup

- Restore Alert and Danger limits independently for both channels
- Preserve relay voting and current-output assignments
- Control bypasses through the site protection procedure

Fault Checks

- Compare raw buffered signals before changing alarm settings
- Inspect probe bracket, target and connector condition
- Confirm the restored configuration belongs to the same rack slot

Application checkpoints

- Relative shaft vibration protection on steam and gas turbines
- Sleeve-bearing compressor shaft monitoring
- Critical rotating-machine protection in MMS 6000 racks

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 6110 data sheet 6010-00001.