

Emerson - MMS 6000**MMS6250**

DAPS Shaft Displacement Protection Monitor

Verified model data

Manufacturer	epro / Emerson
Part number	MMS6250
Product family	DAPS Digital Axial Position Protection System
Product type	Shaft displacement protection monitor
System arrangement	Three MMS6250 monitors in a DAPS system
Sensor input	Eddy-current measuring chain; range depends on installed sensor
Signal frequency range	0 to 10 Hz
Current outputs	0/4 to 20 mA; direction configurable
System capabilities	Three-channel comparison, self-test and 2-out-of-3 relay logic
Hot swap	Boards can be exchanged during operation under approved procedure
Order number	9100-00057

Selection summary

EPRO MMS6250 is a shaft-displacement protection monitor used as one of three channels in an epro DAPS axial-position protection system.

A complete DAPS installation combines three monitors with the specified backplane, frame, terminals and cables to provide channel comparison, fault detection and two-out-of-three trip logic.

Before replacement, identify the exact DAPS system line, monitor position, probe chain, mechanical zero, channel comparison, limit and trip logic, backplane wiring, bypass state and proof-test records.

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Additional verified data

Mating hardware	Backplane, frame, terminals and cables are separate system items
Product family	MMS 6000 Machine Monitoring System
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

System Composition

- Use three matched monitors in the approved DAPS architecture
- Confirm backplane, frame, terminal and cable part numbers
- Identify display and PROFIBUS options separately

Channel Matching

- Restore probe chain, mechanical zero and output direction
- Preserve six limit values and channel-comparison settings
- Match monitor position to the backplane wiring

Proof Test

- Authorize bypass before removing a live channel
- Test fault detection and two-out-of-three voting
- Record all results and restore full protection coverage

Application checkpoints

- Turbine axial-position and thrust protection
- Three-channel shaft-displacement shutdown systems
- Modernization of mechanical axial-position protection using DAPS

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

Source basis: Original epro DAPS, DAPS AS and DAPS TS data sheet.