

Motion monitoring in the digital age - with SITRANS WM300 MFA

Compact, rugged and reliable

A rugged early warning system for your plant, motion failure alarms (MFA) alert you to potential problems in your operations before they occur or develop into something more serious.

Introducing SITRANS WM300 MFA, detecting changes in the motion and speed of your rotating, reciprocating, or conveying equipment. It warns of machinery malfunction and signals to shut down processes in case of a slowdown or failure.

This versatile unit excels in a variety of applications: tail pulley shafts, driven pulleys, motor shaft sensing, belt or drag conveyors, and fans and machines. In the mining, aggregates and cement industry, for example, SITRANS WM300 MFA monitors bucket elevators and screw conveyors for continuous conveying. And in the food and beverage or chemical industries, the alarm monitors mixers to ensure non-stop operation.

This space-saving device replaces many older MFA style controllers, reducing both your wiring time and the space required in cabinets. In fact, four SITRANS WM300s can fit in the same footprint as older motion failure alarms!

With intuitive, easy-to-configure digital programming, you get precise set point control of machines or processes for accurate alarming that prevents potentially costly downtime

or damage. Monitor multiple machines at once with twin, independent probe inputs as well as an additional two inputs for differential speed detection.

No longer requiring separate MFAs for over- and under-speed alarming, you can now monitor both values with the same SITRANS WM300 MFA. Another valuable feature is the optional analog output module, which can convert the device into a non-contacting tachometer with two mA outputs. And with its adjustable 0- to 60-second time delay, this intelligent alarm allows the monitored equipment to accelerate to normal running speed before monitoring begins.

Compact, rugged and reliable motion failure alarms from Siemens are economical investments with a large impact - ensuring peace of mind and protecting your processes.



Space-saving

- Reduction in size of cabinets and in wiring time
- DC power supply

Economical

- Short commissioning time
- Reduced stocks
- Precise set point control

New functions

- Differential speed detection
- Non-contacting tachometer
- Over/under speed alarming
- Four relays

Motion probes

- Backward compatible
- Direct connection with MSP-7

Easy to handle

- Intuitive programming
- Can be used without specific training courses



	SITRANS WM300 MFA
Applications	Tail pulleys, motor shaft sensing, screw conveyor flights, bucket elevators
Measurement range	Up to 100mm (4")
Outputs	4 relays 2, 4 ... 20 mA outputs (NCT)
Input speed	30 - 300,000 ppm
Process connections	2" NPSL motion probes
Options	<ul style="list-style-type: none"> • Remote display • High temp probes • mA output card • WM300 RMA module
Order number	7MH7701-0AA00-0A

Siemens 2019

Process Industries and Drives
Östliche Rheinbrückenstr. 50
76187 Karlsruhe Germany
Germany

Article No. PDPA-T10468-00-7600
Only available as PDF

Subject to changes and errors.

The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.