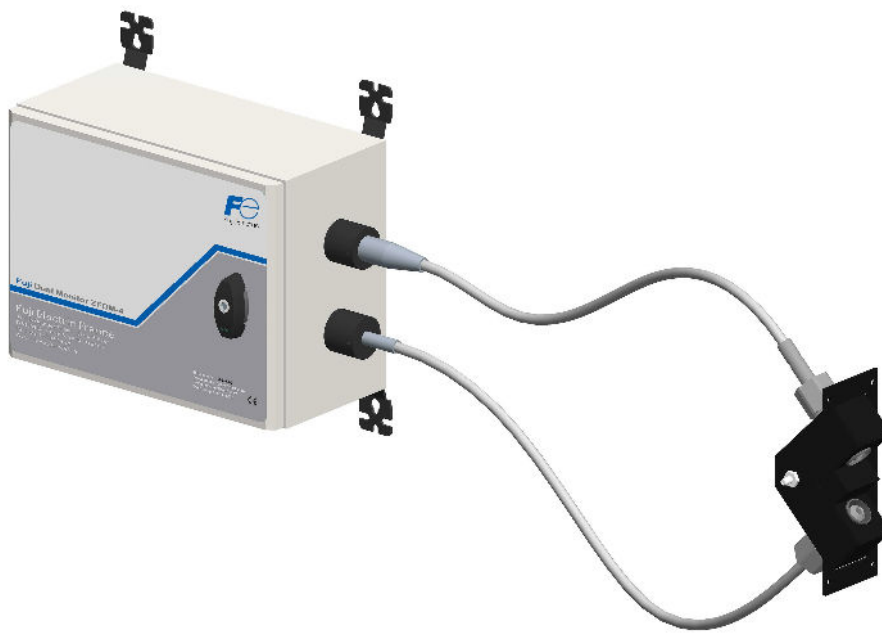


# Fuji ZFDM-4

DUST MONITOR



Automatic monitoring and correction of fouling  
Measuring by reflection  
Single scanner head for simplified installation  
LED Technology  
Adapted for very low dust concentration levels  
Permanent & full self-diagnosis

Designed for Reliability  
Chosen for its Simplicity



In accordance with ever more stringent regulations, Fuji Electric propose the 4th Generation of dust monitor : the **Fuji ZFDM-4**. This unit maintains a simplicity of operation with its single scanner head assembly adapted for numerous applications (coal, oil, biomass and other solid fuels). The self-checking functions for fouling and continuous automatic correction enable any drift in the measuring signal to be corrected.

The unit is adapted for small to average sized ducts, for dust concentration levels ranging from very low to medium and for light to dark coloured particles. The LED light beam is modulated so as to be insensitive to ambient light.

## SPECIFICATIONS

ANALYSER PANEL	
Housing	Epoxy metallic paint
Power supply	230 V ~ / 115 V ~ (+10/-15%) 50 Hz / 60 Hz
Power consumption	50 VA
Operating temperature	-20 to +50°C
Measuring range	0 to 1000 mg/Nm <sup>3</sup>
Measuring scale	adjustable, minimum 10 mg/Nm <sup>3</sup>
Display correction	from 0.1 to 1 mg/Nm <sup>3</sup> according to scale
Twin measuring scale	automatic scale switch-over
Analogue output	Three 4-20 mA for 750 Ohms
Digital processing	4 programmable relays on scale, threshold, , fouling level and general fault
Dimensions / Weight	500 x 400 x 200 mm / 18 kg
Warranty	1 year
SCANNER HEAD	
Shell	Stainless steel 304L
Heating element	Electric resistor 500 VA
Sweeping air pressure/flow rate	0.3 to 0.4 bars / 3 Nm <sup>3</sup> /h
Maximum flue gas temperature	350°C
Automatic self-checks	air presence and temperature control
Weight	4.8 kg
FIBRE OPTIC	
sensor tip and sheath	Stainless steel. 304L
Standard lengths	1.20 m or 2.20 m
Admissible temperature on fibres	-20 to 220°C

### → Options / Services

- High temperature scanner head (700°C)
- Stainless steel 304L housing
- Length of fibre optics to suit application
- Commissioning assistance
- Maintenance contract
- Optional 3 year warranty

### → Certifications

- Protection rating(EN 60529): IP 65
- Approval n° 78.1.01.923.1.0 by the French Ministry of industry for heating installations over 300 kW
- Meets standard NFX 43-302
- In accordance with the European directive concerning electromagnetic compatibility (CE)
- Certification QAL 1 (TUV) according to standard ISO 15267

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