



Dust Measuring Devices

Extractive scattered light dust measuring device,
FWE200

FWE200



Type [> FWE200](#)



The FWE200 dust measuring system is designed to measure dust concentrations in wet flue gas. The gas is extracted via a sampling probe and heated above dew point. Any droplets in the gas are vaporized to ensure accurate measurement results. The scattered light principle enables even minimal dust concentrations to be measured.

At a glance

- For very low to medium dust concentrations
- Gas sampling and return combined in one probe
- Contamination check
- Automatic check of zero and reference point

Your benefits

- Reliable dust measurement in wet gas
- No movable parts with contact to aggressive gas, therefore low maintenance efforts
- Installation directly at the duct due to compact design

Fields of application

- Monitoring of wet scrubber facilities
- Measurement in saturated gas downstream of desulfurization plants
- Determination of dust concentrations in wet exhaust air

Note

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

Technical data

Measurement principles:	Scattered light forward
Max. number of measurands:	1
Measuring ranges:	Dust concentration: 0 ... 5 mg/m ³ / 0 ... 200 mg/m ³
Comment:	Higher measuring ranges on request Measuring ranges freely selectable
Process temperature:	Hastelloy probe: 0 ... +220 °C PVDF probe: 0 ... +120 °C
Process pressure:	-20 ... 20 hPa
Process gas velocity:	4 ... 20 m/s

Process gas humidity:	max. 10 g/m ³ liquid water without water vapour
Ambient temperature:	-20 ... +50 °C
Conformities:	2000/76/EC 2001/80/EC 27. BImSchV MCERTS German Clean Air Regulations U.S. EPA PS-11 compliant Approved for plants requiring approval
Electrical safety:	CE
Enclosure rating:	Electronics enclosure: IP 65 System: IP 54
Analog outputs:	1 output: 0/2/4 ... 20 mA, 750 Ω electrically isolated; second output as option
Digital outputs:	4 relay contacts: 250 V, 1 A preset for failure, warning, limit value and maintenance
Digital inputs:	1 input potential-free; for maintenance switch
Interfaces:	RS-232 (service interface)
Operation:	Menu-driven operation via control unit
System components:	Sampling probe FWE200 measuring and control unit Purge air unit
Options:	FWE200 mounting rack

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