Dust monitor

Innovative measuring device with laser technology to monitor small to medium dust emission according to the new European regulations.

Features
- Integrated display: Measuring value, threshold value, parameter in probe
- In-situ measuring procedure with continuous measurement
- High sensitivity
- Easy installation on one side of the duct
- Can also be deployed in thick-walled stone/insulated channels
- Long lifetime, as there are no moving parts inside the duct
- Hermetically sealed electronic housing against exhaust gas
- Parameterisation and operation with keyboard plus easily readable display directly on device or via bus interface
- Automatic function test with soiling correction
- Two analog outputs with adjustable measuring ranges
- Automatic switching of measuring ranges according to 17. BImSchV.

Applications
- Power stations
- Cement plants, the metallurgy and wood industries, chemical industry etc.
- Waste incineration plants
- Monitoring of dust filter plants.

Approvals
- Suitability-tested by the TÜV Cologne, test report 936/2105307/A
- Itemized in the list of suitable measuring devices for continuous emission measuring
- MCERTS pending.

Measuring principle

The D-R 800 device works according to the principle of forward scattering. The concentrated and modulated light of a laser diode penetrates the measuring volume. The forward-scattered light largely reflected from dust particles is measured and assessed.

System components
- Measuring lance
- Supply unit with integrated purge air supply
- Mounting flange 130 / 240 / 500 mm.

Options
- Weather protection cover
- Temperature compensation through additional analog input.

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<th>accuracy</th>
<th>&lt;1% of measuring range limit</th>
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<td>85–264 VAC, 47–63 Hz, 50 VA</td>
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