

D-R 808 **Dust monitor**

Reliable monitoring of low to
medium concentrations

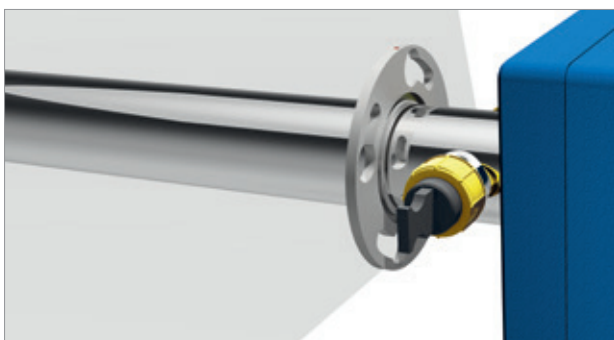
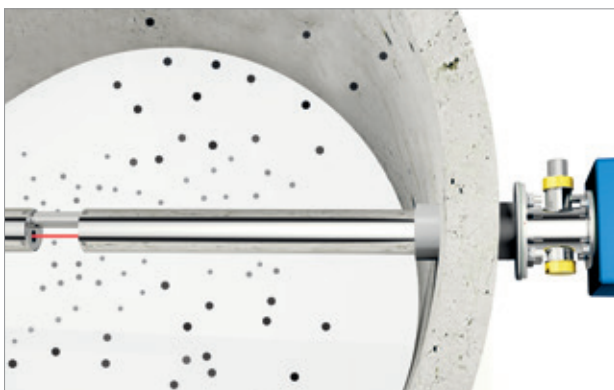


D-R 808 Dust monitor

Reliable monitoring of low to medium concentrations

Forward scattering principle

Thanks to modern filter technology, dust concentrations in combustion plants are typically very low. For monitoring very low concentrations the forward scattering principle is ideally suited. Here, the modulated light of a laser diode penetrates the measuring volume in the flue duct. A highly sensitive detector records the light scattered by the dust particles in a forward direction. The measured scattered light is directly proportional to the dust concentration.



Due to the simplified, advanced design, the D-R 808 is unmatched in its ease of maintenance. There is no need to remove the device from the stack for the linearity check with optical filters.*

Technical Data

| | |
|--------------------------|--|
| Measuring value | Dust concentration |
| Measuring range | Min.: 0 ... 5 mg/m ³ Max.: 0 ... 200 mg/m ³ Lowest certified range: 0 ... 7.5 mg/m ³ |
| Measuring principle | Forward scattering |
| Flue gas temperature | Above dew point up to 350 °C, optional up to 500 °C |
| Inner duct pressure | -50 ... +50 hPa |
| Inner duct diameter | > 0.3 m |
| Power supply | 24 VDC |
| Ambient temperature | -40 ... +60 °C |
| IP protection class | IP65 |
| Dimensions (h x w x d) | 160 x 160 x 600/1000 mm |
| Length/lance from flange | 400/800 mm |
| Weight | Approx. 3/7 kg |

* if stack pressure is negative

Functions + Advantages

- ▶ One-sided installation
- ▶ No alignment needed
- ▶ Automatic zero and reference point check
- ▶ Automatic contamination check and correction
- ▶ Integrated purge air monitoring
- ▶ Linearity check without removing the device from the stack*
- ▶ Low maintenance

Flexible operation, emission values always in view

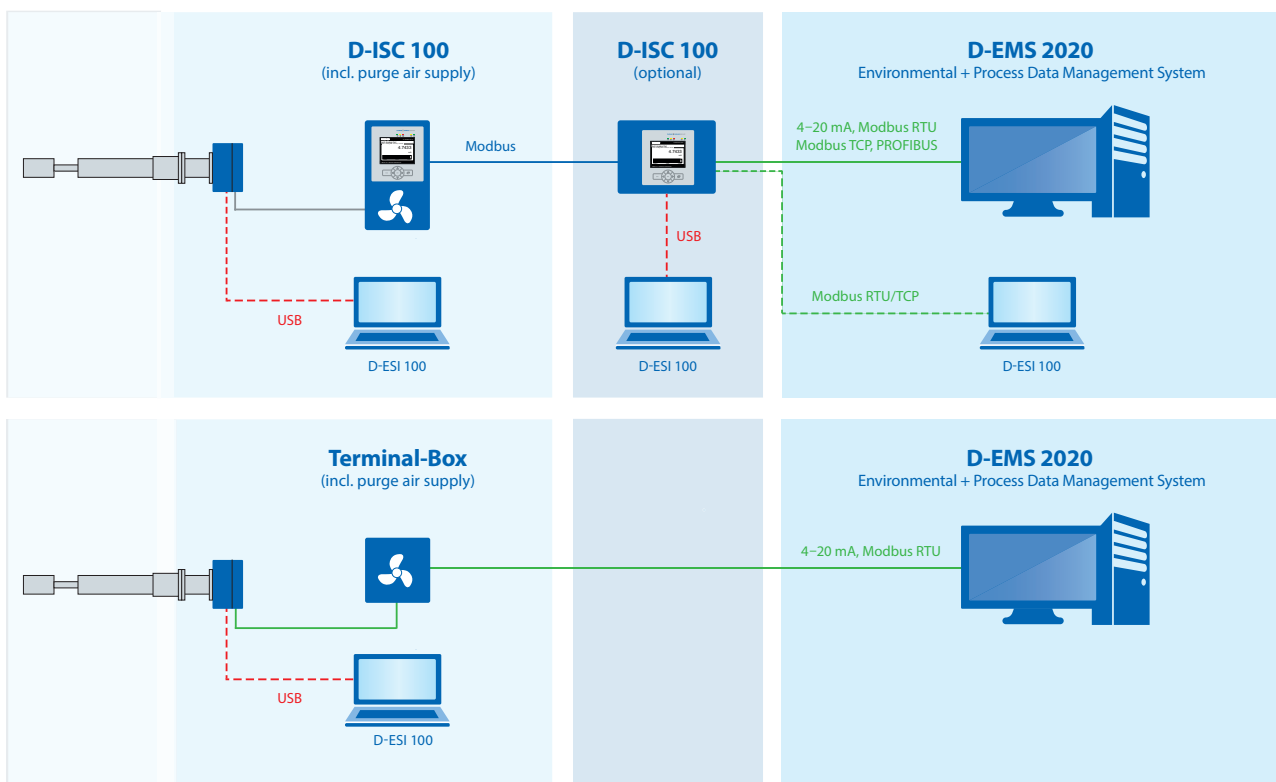
You can choose to operate the device with either the universal operating unit D-ISC 100, the software D-ESI 100 or via the digital interface.

Universal operating unit D-ISC 100

- ▶ Connection of several DURAG devices
- ▶ Operation, parameterization and signal transmission
- ▶ Installation either next to the measuring device at the stack or in the control room

Software D-ESI 100

- ▶ Operation, parameterisation and management of DURAG devices
- ▶ Access to the devices even without operating unit
- ▶ Remote support via web interface



Features + Benefits

- ▶ **Certified for official emission monitoring**
Type approved according to EN 15267-3, compliant with the requirements of US-EPA PS-11
- ▶ **Lowest certified range 0 ... 7.5 mg/m³**
Reliable measurement of very low dust concentrations
- ▶ **Space-saving and easy installation**
One-sided installation without alignment
- ▶ **Durable through integrated purge air monitoring**
Protection of the device through continuously monitored purge air supply
- ▶ **Low maintenance effort**
Linearity check with reference filters without removing the device from the stack*
- ▶ **Reliable emission monitoring**
Automatic control functions ensure reliable measuring values

Applications

Continuous emission measurement on plants requiring monitoring, e.g. in the following industries:

- ▶ Waste incineration
- ▶ Cement industry
- ▶ Power industry
- ▶ Wood industry
- ▶ Chemical industry
- ▶ Steel industry

Process monitoring, e.g.:

- ▶ Monitoring of filter plants
- ▶ Monitoring of ventilation units



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