DURAG GROUP

D-R 808 Dust monitor

Continuous dust measurement for small to medium concentrations

- QAL1 certified in accordance with EN 15267
- Compliant with US EPA 40 CFR 60 PS 11
- Automatic control functions



Features

- Continuous dust measurement
- Smallest certified measuring range 0 ... 7.5 mg/m³
- Single-sided installation without optical alignment
- Automatic control functions
- Continuous integrated purge air monitoring
- Maintenance and linearity check without disassembly

Benefits

- Suitable for official emission monitoring
- Reliable measurement of small dust concentrations
- Space-saving and easy installation
- Reliable emission monitoring
- Long service life
- Low maintenance

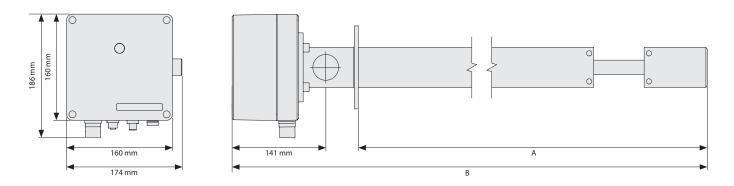
Technical data

Measuring principle	Forward scattering, in-situ, continuous, single-sided installation		
Measuring variable	Scattered light units, calibratable as dust concentration in mg/m³		
Measuring range	Min. 0 5 mg/m ³ Max. 0 200 mg/m ³		
Certified measuring range	0 7.5 mg/m³		
Certificates	QAL1, MCERTS		
Conformities	IED 2010/75/EU, EN 15267-1, EN 15267-2, EN 15267-3, EN 14181, US EPA 40 CRF 60 PS 11, 13th / 17th / 27th / 30th BlmSchV, TA Luft		
Interface*	 Analog output: 1x 4 20 mA, max. 400 Ω, potential-free (various parameters adjustable) Digital output: 2x NC/NO, max. 60 V=, 30 V~, 0.5 A (various parameters adjustable) RS 485 Modbus RTU, USB 		
Nominal voltage	24 V==		
Ambient conditions	 Installation location: Indoor and outdoor installation** Temperature: -40 +60 °C 		
Operating conditions in duct	 Temperature: Max. 350 °C, optional: 500 °C Relative humidity: 0 95%, non-condensing Relative pressure: -50 +50 hPa 		
Duct dimensions	 Inner diameter: >0.3 m (a representative measurement must be ensured) Wall thickness: Max. 0.47 m 		

Control	Automatic zero and reference point			
functions	measurement, automatic contamination			
	measurement and compensation,			
	integrated purge air monitoring			
Degree of protection	IP65 in accordance with DIN EN 60 529			
Light source	Laser, class 2 in accordance with DIN EN 60825-1, < 1 mW at 650 nm			
Connections	 Process: Flange, DN 40 PN6 including stud bolts, bolt circle 100 mm 			
	 Device: M23 DURAG Standard 			
	■ Purge air hose: Ø 25 mm			
	Purge air sensor: M12 8-pin			
Explosion protection	N/A			
Display and	Status display: LED			
operation	D-ESI 100 software**			
	or D-ISC 100 operating unit			
Material	• Probe: 1.4404, AISI 316L, polished			
	Housing: Painted aluminum			
System	- D-R 808 dust monitor			
components	D-ESI 100 software***			
	• D-TB 200 Terminal Box			
	or D-TB 100 Terminal Box			
	(external purge air supply required)			
	 or D-ISC 100 P operating and purge air unit 			

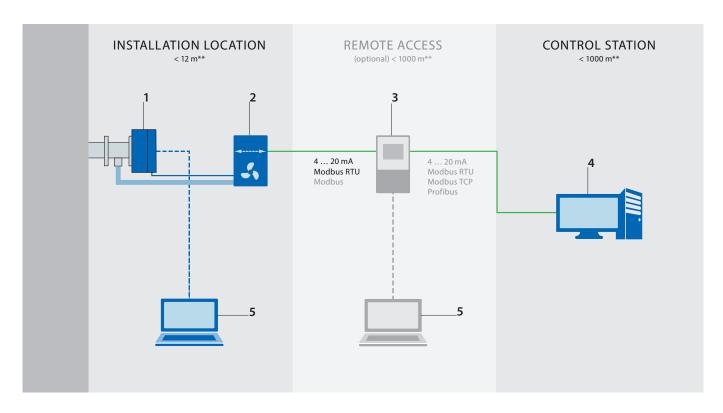
 ^{*} Additional interfaces with D-ISC 100 operating unit
 ** A weather protection cover is required for outdoor installation
 *** Enables remote access via web interface, requires PC with Windows operating system

D-R 808 | DIMENSIONS AND WEIGHT OF DIFFERENT PRODUCT VARIANTS



Product variant	A (mm)	B (mm)	Weight
Probe length 400 mm	387	577	3 kg
Probe length 800 mm	787	977	7 kg

EXAMPLES OF SYSTEM CONFIGURATIONS* | STANDARD + OPTIONAL WITH REMOTE ACCESS



- **Dust monitor** 1
- **Terminal Box** 2 with/without purge air unit***
- 3 Operating unit
- Emission evaluation system
- 5 PC with Windows operating system and software

All system components shown are available on request Maximum permitted cable and hose length

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