

Confirmation of US EPA Compliance for D-R 290 x xx2

As manufacturer of opacity and dust concentration monitors we herewith confirm that the following device meets or exceeds the requirements of US EPA 40 CFR60 PS1 and ASTM D6216-20:

1	Instrument	Type	: D-R 290 x xx2
1.1	Measuring device	Type	: D-R 290 M x xx2
		Measurement	: Opacity and/or dust concentration
		Zero and Span Check	: Automatic or manually
		Contamination compensation	: Automatic contamination compensation
		Path length	: 1.000 ... 18.000 mm
		Ambient light immunity	: Electronic light modulation
		Stack factor correction	: 0.1 ... 4.0
		Integration time	: 1 ... 180s
		Digital interface	: RS485 Modbus RTU
2	Specifications		
2.1	General	Range opacity	: min. 0 ... 10%, max. 0 ... 100%
		Range extinction	: min. 0 ... 0.1, max. 0 ... 2.0
		Resolution	: 0.1 % Opacity
		Input Power	: 24 VDC
		Ambient Temperature	: -40 ... + 60 °C
		Gas Temperature	: above dew point up to 250° C standard, optionally >250° C
		Protection Class	: IP 65
2.2	Light Force	Spectral Response	: 450 – 680nm, less than 10% outside 400 – 700 nm
		Peak response	: 570 nm
		Mean response	: 570 nm
		Life time	: > 3 years
		Photo detector	: Silicon Cell
		Aging compensation	: Automatic
2.3	Optics	Angle of View	: < 4.0 °
		Angle of Projection	: < 4.0 °
2.4	Performance	Response Time	: < 5 seconds
		Zero drift (24 hours)	: < 0.5 % Opacity
		Span drift (24 hours)	: < 0.5 % Opacity
		Calibration error	: < 1%
3	Output	Output signal	: 4 ... 20 mA and/or Modbus RTU

All test and controls have been carried out strictly in accordance with the quality assurance plan as checked and certified under ISO 9001 by TÜV certificate No. 07 100 940052.

The unit DURAG D-R 290 x xx2 is certified acc. To EN 14181 / EN 15267 by TÜV Rheinland as per test report # 936/21226948/A and MCERTS certified.

DURAG GMBH

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Amtsgericht Hamburg HRB 39787 | USt-IdNr.: DE196919865 | WEEE-Reg.-Nr. DE 27499760 | Geschäftsführung: Fabien Burato, Max Dreckmann

Signed for and on behalf of DURAG GmbH

Place, date Hamburg, 18.10.2024

Signature _____
i.V. René Behrends
Product Compliance Manager DURAG GmbH

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