

LGS-80

Forward Light Scattering
Dust (Dry)

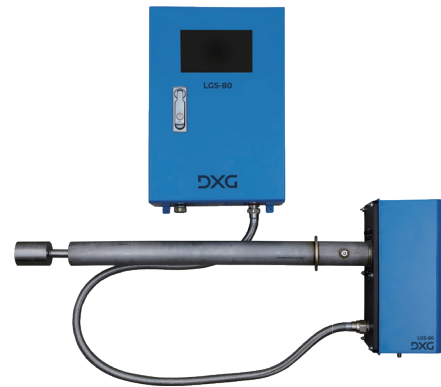


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In-situ

Technical Specification

Measured Component	Dust
Measurement Principle	Forward Light Scattering
Measuring Range	Min 0 ~ 15 / Max 0 ~ 200 mg/m ³
Measurable Minimum Thickness	0.05 mg/m ³
Min. Measuring Unit	0.1 mg/m ³
Zero Drift (168 hours)	< ±1 % FS
Span Drift (168 hours)	< ±2 % FS
Repeatability	< ±1 % FS
Linearity	< ±2 % FS
Response Time	< 5 seconds



System Component	Main Unit / Probe / Purge Motor Unit / Cables / Master Flange
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Certificate & Approval	Type Approval (Korea) US EPA (USA) CPA (China)
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Feature	<ul style="list-style-type: none"> 01 Capable of measuring concentrations as low as 0.05 mg/m³ using forward scatter with forward light scattering principle 02 Prevents internal component contamination with purge air supply 03 Prevents contamination of internal probe components by supplying purge air 04 Compensates for optical contamination effects on measurements through periodic span check cycle
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Other Specification

Measurement Condition	Operating Temp.	-20 ~ +55 °C
	Operating Pressure	-50 ~ 10 mbar
	Operating RH	0 ~ 99 %RH
	Gas Temp.	< +150 °C
	Gas Flow Rate	4 ~ 20 m/s

Communication	Analog Output	1 Channel, 4 ~ 20 mA
	Digital Output	4 Channel
	Digital Input	1 Channel
	Display & Input Device	7 inch LCD Monitor (Touch Screen) / USB
	Interface	RS232, 422, 485

Analyzer Unit	Material	SUS 304
	Dimension	W 440 x D 266 x H 500 mm
	Weight	20 kg
	Voltage	110 / 220 VAC, 50 / 60 Hz
	Enclosure Rating	IP 54 (Electrical Device IP65)
	Power Consumption	200 W

Probe	Material	SUS 316, SUS 316Ti
	Length	0.5 ~ 2.5 m
	Weight	4.8 kg

Purge Motor Unit	Material	SUS 304
	Dimension	W 523 x D 370 x H 605 mm
	Weight	15 kg
	Voltage	3P 480 VAC or 1P 220 VAC
	Power Consumption	0.5 kW ~ 1.5 kW