

LCD-80

Light Transmission
Dust (Dry)



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In-situ

Technical Specification

Measured Component	Dust, Opacity
Measurement Principle	Laser (Light Transmission Method)
Measuring Range	Dust : 0 ~ 20000 mg/m ³ Opacity : 0 ~ 100 %
Min. Measuring Unit	0.1 mg/m ³
Measurement Distance	1 ~ 10 m
Zero Drift (168 hours)	< ±1 % FS
Span Drift (168 hours)	< ±2 % FS
Repeatability	< ±1 % FS
Linearity	< ±2 % FS
Response Time	< 5 seconds



System Component	Analyzer Unit / Transceiver & Reflector Unit / Purge Motor Unit / Cables / Master Flange
Option	Calibration Jig / Main Unit Cabinet / IP66 or NEMA 4X
Certificate & Approval	Type Approval (Korea) US EPA (USA) CPA (China)

Feature	<p>01 Uses a high-efficiency laser diode with a red visible light wavelength range of 645 ~ 660 nm as the light source</p> <p>02 Features a convenient structure and a window viewer for easy alignment confirmation</p> <p>03 Applicable as a single path system for high-concentration and double path for low-concentration environments</p> <p>04 Allows representative measurements of large diameter stacks using the cross-duct method</p>
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Other Specification

Measurement Condition	Operating Temp.	-20 ~ +55 °C
	Operating Pressure	3 bar (=300 kPa)
	Gas Temp.	-30 ~ +600 °C
	Gas Pressure	-50 ~ 30 hPa
Communication	Analog Output	1 Channel, 4 ~ 20 mA
	Digital Output	3 Channel
	Digital Input	1 Channel, DI Voltage 12 VDC ~ 24 VDC
	Display & Input Device	7 inch LCD Monitor (Touch Screen) / USB
	Interface	RS232, 422, 485 / LAN (Ethernet) / Hart
Analyzer Unit	Material	SUS 304
	Dimension	W 330 x D 206 x H 480 mm
	Weight	18.5 kg
	Voltage	110 / 220 VAC, 50 / 60 Hz
	Power Consumption	200 W

Transceiver Unit	Material	SUS 304, AL 6061
	Dimension	W 210 x D 200 x H 270 mm
	Weight	4.8 kg
	Voltage	12 V / 24 V
Reflector Unit	Material	SUS 304, AL 6061
	Dimension	W 200 x D 140 x H 200 mm
	Weight	4.6 kg
	Voltage	N / A (24 V with heater option)
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