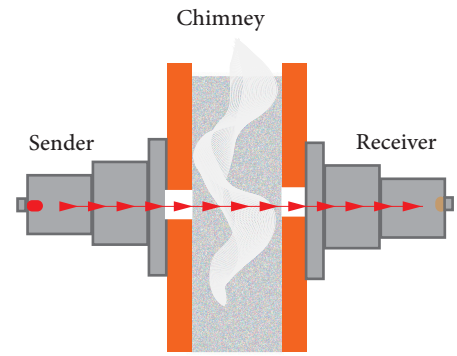


Laser Dust & Opacity Analyzer (Single Pass)

D10.3LS

Measuring Principle

D10.3LS is a type-approved measuring device which combines the advantages of the measuring principles transmittance and scattered light forward. Therefore, it is ideal for measurement of very low to high dust concentrations. The automatic self-alignment optimized the position of the measuring beam and prevents incorrect measurement. An automatic check of zero and reference points as well as a contamination monitoring.



Features

- Combination of transmittance and scattered light measurement
- For very low to high dust concentrations
- Automatic check of zero and reference point
- Contamination monitoring and compensation on both sides
- Automatic self-alignment
- For medium to large dust diameter
- CE mark by TUV

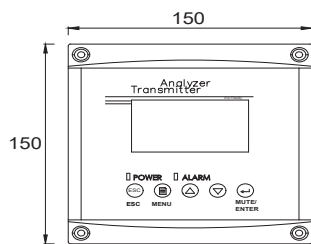
Benefit

- Suitable for highly fluctuating dust concentrations
- Reliable application due to redundant measurement
- Low maintenance due to self-monitoring function
- Future-proof for decreasing limit values

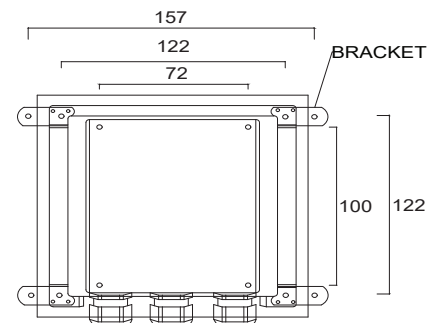
Application

- Solid Fuel Boiler
- Tunnel for Visibility
- Gas Fuel Boiler
- Generator Emission
- Diesel Car Emission
- Rubbish Incinerator
- Prilling Tower

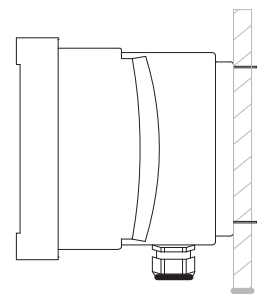
Surface Wall Mounting



Front View

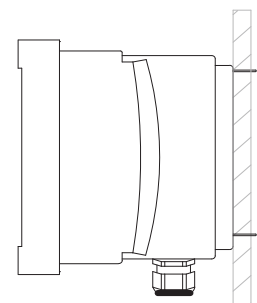
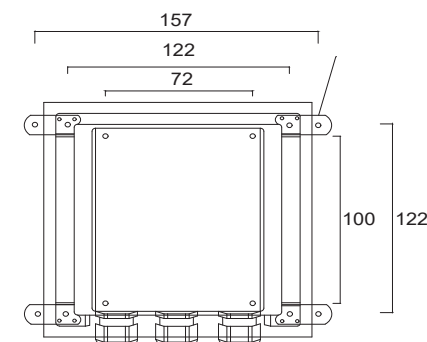
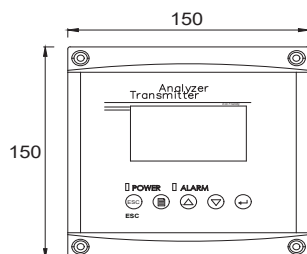


Back View



Side View

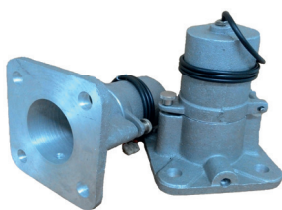
Flush Panel Mounting



Technical Information

Controller

Power	85-260VAC; 50/60Hz
Power Consumption	20 Watt
Ambient Temperature	-10°C~50°C
Operating Temperature	0°C~55°C
Operating Humidity	-20 to 80% RH Max (Non Condensing)
Measuring Range	0-100% (Opacity) ; 50-100mg/m ³ (Dust)
Scanning Distance	0-30 meter
Screen Width	LCD 70 x 38mm
Engineering Unit	Percent Obscuration (%) ; mg/m ³ (Dust)
Output	2 x output 4~20mA
Communication	RS485 Modbus
Alarm Contact	Max 5A/240VAC - SPDT Relay
Compensation to mg/NM ³	Required Temperature & Pressure
Sampling Time	0.2 seconds
Mounting	Panel or Wall Mount
Dimension	W150 x H150 x D110 (mm)
Panel Cutout Dimension	W137 x H137 x D90 (mm)
Protection	IP65 Front Panel
Weight	1 Kg
TUV Certificate No.	AE50247427 0001



Sensor

Enclosure Class	IP65
Sensor Body Material	Aluminium Alloy
Sender Element	Laser
Receiver Element	Light Dependent Resistor
Flange Mounting Size	146mm P.C.D, Φ18 Holes, C.T.C: 102mm
Air Pressurized adapter	1/4" BSP Thread
Design Body	Weather Proof IP65
Max. Ambient Temperature	70°C
Max Stack Temperature	1200°C
Swing Door	90°C minimum
Weight	2.0 Kg

Auto Cleaner

Ambient Temperature	25°C and 40°C
Power Supply	Single phase 200-240VAC, 50Hz 3 Phase 345 ~415VAC, 60Hz
Material	Cast Aluminium
Connection	DN40 BSP
Static Pressure	120m Bar
Capacity	140m ³ /Hr
Weight	14Kg



Accessories

	Multipurpose Bracket
	Blower Kit for Air Purge
	Compress Air Kit Use with compress air purge. Includes pressure regulator, in-line filters and compressed air adapters for the purge body.

Ordering Number

Description	Model
Controller	DM-LK-D10-LSC
Sender	SDS-LK-SV6
Receiver	SDR-LK-RV4
Air Blower Cleaner Set	D10.AB
Air Compressor Filter Set	D10.AC
Multipurpose Bracket	S-LK-SDM-SB-1