







matic self-alignment optimized the position of the measuring beam and prevents incorrect measurement. An automatic check of zero and reference-

Product Overview

Dust & Opacity Analyzer

- Combination of transmittance and single pass measurement.
- Medium 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 diameters.

Field Application

- Emission Monitoring of power stations and waste incinerator plants.
- Monitoring of filter facilities.
- Measurement of dust concentrations in exhaust gas and exhaust air ducts up and downstream of a filter

Application

- Solid Fuel Boiler
- Gas Fuel Boiler
- Tunnel for Visibility
- Generator Emission
- Diesel Car Emission
- Rubbish Incinerator
- Power Plant Boiler
- Furnance
- Waste Incinerator

Benefits

- 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.

Ordering Information

Model		Description
6 Meter	30 Meter	Scanning Distance
DM-LK-D10-5	DM-LK-D10-30	Dust & Opacity Meter Complete Set
DM-LK-D10-C5	DM-LK-D10-C30	Controller Unit
SDS-V6.5	SDS-V6.30	Sender
SDR-V4		Receiver
HPB-82S		Auto Cleaner

points as well as a contamination monitoring.

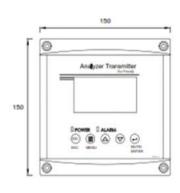
Controller Unit

- Continuous monitoring in % (Opacity) and mg/m³ (Dust).
- Alarm contact for exceeded limit.
- Aid to Efficiency of combustion.
- Meet to the Department of Environmental Emission Standard Regulation.
- Acknowledge Buzzer function.
- 4-20mA Analog output for Dust and Opacity.
- RS485 Modbus Communication.
- Automatic Zero and Span check.
- Certification CE Mark by TUV.

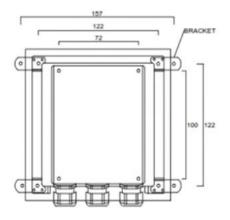


Model	D10	
Screen Width	LCD 70 x 38mm	
Power	85-260 VAC; 50/60 Hz	
Power Consumption	20 Watt	
Ambient Temperature	-10 ~ 50°C	
Alarm Contact	Max 5A / 240VAC - SPDT Relay	
Measuring Range	0 - 100% (Opacity), 50 - 1000mg/m³ (Dust)	
Sender Source	Laser	
Scanning Distance	0 ~ 6 Meter ; 0 ~ 30 Meter	
Engineering Unit	Percent Obscuration (%) - Opacity mg/m ³ - Dust Concentration	
Mounting	Panel or Wall	
Panel Cut-Out Size	W137 ± 1 x H137 ± 1 x D90 (mm)	
Dimension	W150 x H150 x D110 (mm)	
Weight	1 Kg	
Sampling Time	0.2 seconds	
Display Accuracy	±1.0% F.S	
Operating Temperature	0°C to 55°C	
Operating Humidity	20 to 80% RH Max. (Non-condensing)	
Protection	IP65 Front Panel	
Certification	CE Mark by TUV (AE50247427 0001)	
Report No.	16036955 001	
Conformity	2004 / 108 / EC	
Emission	EN 61326-1 : 2013	
Compensation to mg/NM3	Required Temperature & Pressure Measurement	
Fail Safe Shutter	Optional	
Double Pass Beam	Optional	

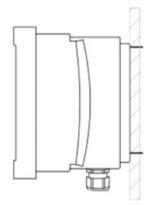
Surface Wall Mounting





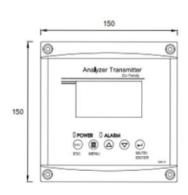


Back View

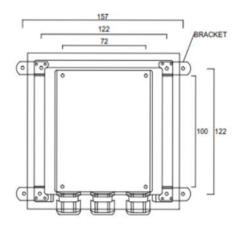


Side View

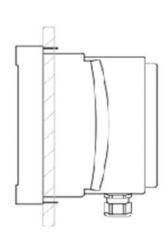
Flush Panel Mounting



Front View



Back View

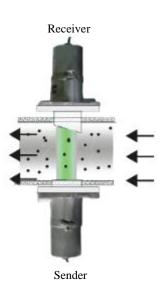


Side View

Sensor

- Mounted on opposite sides of the stack or duct. Sender light beam is at right angles to the flow or flue gases and give unrestricted illumination of the receiver solar cell.
- Preferable that unit installing where the temperature is at minimum.

Sender Model	SDS-LK-SV6.5 / SDS-LK-SV6.30
Receiver Model	SDR-LK-RV4
Enclosure Class	IP65
Sensor Body Material	Aluminium Alloy
Sender Element	Laser (0-6 Meter & 0-30 Meter)
Flange Mounting Size	146mm P.C.D, Ø18mm 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° minimum
Weight	2.0 Kg
Certification	CE Mark by TUV



Auto Cleaner

Model	HPB-82S	
Ambient Temperature	25°C and 50°C	
Power Supply	Single Phase :200-240VAC, 50Hz 3 Phase : 345-415VAC, 60Hz	
Material	Cast Aluminium	
Connection	DN40 BSP	
Static Pressure	120 mbar	
Capacity	140m³/Hr	
Weight	40Kg	
Accessories	Hose x 10 meter, Y-Joint x 1 & Hose Clip x 6	



Typical Installation

