

S300 Series Dust Monitors

- S304 – Emission Monitor
- S305 – Stack Monitor



NEW DUST MONITORS – WITH A DIFFERENCE!

S304 – New Emission Monitor

- Linear monitor for dust emission monitoring
- Automatic range setup
- Automatic drift compensation
- Can be calibrated to mg/m^3 (dust concentration)
- Remote configuration using RS422 or RS485
- Remote data collection via Sintrol's data logging software

S305 – New Stack Monitor with TÜV Certificate

- Linear monitor for stack-monitoring applications
- Automatic range setup
- Automatic drift compensation
- Can be calibrated to mg/m^3 (dust concentration)
- Remote configuration and data collection using RS422 or RS485
- TÜV Certificate: BlmSchV 13, BlmSchV 17, BlmSchV 27, BlmSchV 30 and TA Luft 2002
- Self Zero check and self Span check
- PIN code protection



S300 Series Dust Monitors

TECHNICAL SPECIFICATIONS

Measurement objects:	Solid particles in a gas flow
Particle size:	0.3 micron or larger
Measurement range:	approx. 0.1 mg/m ³ to 1 kg/m ³
Process Conditions:	
Temperature:	300°C
Pressure:	Max. 200 kPa
Gas velocity:	Min. 4 m/s
Humidity:	95 % RH or less (non-condensing)
Input surge voltage:	Max. 100 V
Measurement principle:	Friction / electrostatic detection
Damping time constant:	0 to 300 seconds
Output signals:	isolated 4-20 mA relay 5 A, 24 VAC or DC
Ambient conditions:	
Temperature:	-20°C to +45°C 60°C for 24 VDC
Humidity:	95% RH (non-condensing)
Vibration:	5 m/s ² or less
Materials:	
Sensor rod:	stainless steel
Insulation of sensor:	PEEK
Enclosure /casing:	aluminium
Power Supply:	115 VAC / 230 VAC / 24 VDC
Power consumption:	3 W for DC models 8 W for AC models
Wiring connections:	DIN PG11 cable gland for power cables DIN PG11 cable gland for output signals
Weight:	2.3 kg
Range setup:	
Normal measuring range:	– automatic, based on average measured dust flow during setup procedure
Extended measuring range:	– user selectable
Relay alarm options:	
Alarm level:	– automatic, set at factory (based on average measured dust flow) or user selectable
Software alarm option:	Configurable via Dustlog data logging software
Offset trim:	automatic

A reliable and accurate dust monitoring system is necessary to satisfy the continuous monitoring requirements of the environmental regulatory authorities and to ensure compliance with increasingly stringent standards imposed for particulate emissions to the atmosphere. Sintrol's S304 and S305 dust monitors are proving an ideal solution for stack-monitoring requirements of a variety of applications including coal-fired power plants and incinerators. TÜV certification includes: 13 BlmSchV, 17 BlmSchV, 27 BlmSchV, 30 BlmSchV and TA Luft 2002.

Ordering codes for S304 and S305 monitors

Temperature (°C)	
1	
2	
3	300
Pressure	
L	< 2 bar
H	> 2 bar
Voltage	
1	230 VAC
2	115 VAC
3	24 VDC
Air purge	
N	without air purge
Y	with air purge
Probe length (mm)	
1	250
5	500
7	750
9	1000
Options	
R	Remote display
Process connection	
S	Standard
Q	Quick clamp
F	Flange
X	X
X	X
X	X
X	X
X	X
X	X
X	X

E.g. S304-3L1Y5RS: (300°C, < 2 bar, 230 VAC, with air purge, with remote display, 500 mm probe, standard process connection)