

DUST EMISSIONS MONITOR

S305QAL - SINTROL

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The S305QAL measures Total Suspended Particles (TSP) in the airflow inside pipes, ducts and stacks.

This rugged monitor is certified MCERTS and meets the highest European standards as defined in EN14181. It comes with many key features making it a very reliable, low maintenance, sensitive solution for stack measurements.

When moving particles pass nearby or hit the probe, a signal is inducted. Inductive Electrification Technology is based on the Triboelectric AC signal and it minimizes the influence of sensor contamination, temperature drift and velocity changes at a detection limit as low as 0.01 mg/m³.



SINTROL
Measuring Matters



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BENEFITS

- + Monitor compliant with EN 15267-1,2,3, EN 14181 and EN 13284-2
- + Simple installation
- + No probe alignment required for installation
- + Instrument not affected by vibrations
- + Light and compact device, but yet reliable and durable



APPLICATIONS

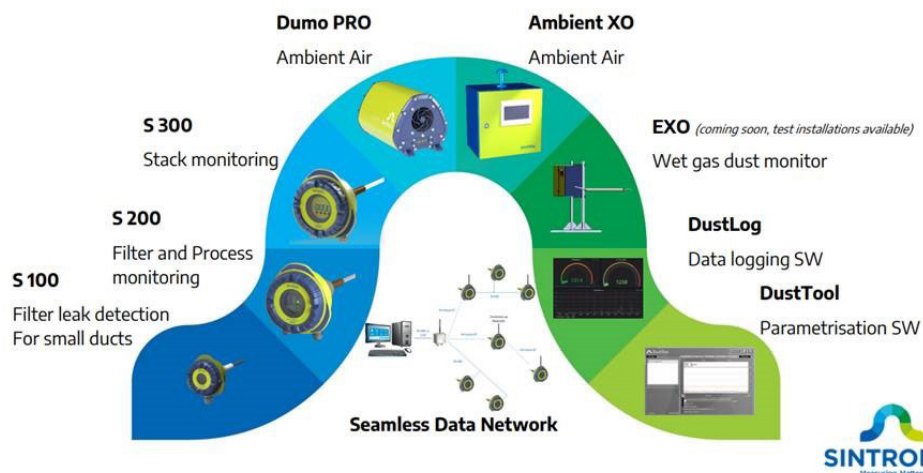
- + Waste incineration
- + Filtration plants
- + Combustion plants
- + Metal industry (steel, cement)
- + Pharmaceutical and chemical industry

DUST MONITOR S305QAL - SINTROL



TECHNICAL SPECIFICATIONS

TECHNOLOGY	Inductive Electrification
MEASUREMENT RANGE	Detection limit: 0,01 mg / m ³ Certification ranges: 0...7.5 mg / m ³ , 0...15 mg / m ³ , 0...100 mg / m ³
PROTECTION	IP66
POWER SUPPLY AND CONSUMPTION	24 V DC + - 10% 100 ... 240 V AC ±10 %, 50 / 60 Hz Consumption : up to 10 W DC / AC
WEIGHT	1.5 kg (3.3 lb)
COMMUNICATION INTERFACE	2 x Serial communication RS485, USB, DustTool software
COMMUNICATION PROTOCOL	Modbus RTU (with RS-485), compliant with VDI 4201 Sintrol network (with USB, RF and RS-485)
AMBIENT CONDITIONS	Humidity: max. 95% relative humidity (non-condensing) Temperature: -20...50°C. (-4 ... 122 °F)
PROCESS CONDITIONS	Temperature: Max. 300°C (572°F), optionnally up to 700 °C (1292 ° F). Max. 250°C (482 °F) with teflon-coated probe. Pressure: Max. 600 kPa (87 psi) in temperatures up to 300 °C (572 °F). Max. 300 kPa (43 psi) in temperatures from 300 °C (572 °F) to 700 °C (1292°F) when high-temperature process connection is used. Flow velocity: min. 3 m/s (10 ft/s), max. tested 40 m/s (131 ft/s).



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