

## S300 Series dust monitors

Measurement Objects	Solid particles in gas flow
Particle Size	0.3µm or larger
Measurement Range	From 0.1mg/m <sup>3</sup>
Measurement Principle	Inductive Electrification
Protection Category	IP65
Probe Length (total/measuring)	500mm/440mm, 750mm/690mm (optional), 1000mm/940mm (optional), >1000mm on request  19.7" / 17.3", 29.5" / 27.2", 39.4" / 37.0" (optional), > 39.4" on request
Power Supply	115 VAC, 230 VAC or 24 VDC
Power Consumption	DC model Max 3 W, AC model Max 8 W
Wiring Connections - Power Supply	DIN PG11 cable gland
Wiring Connections - Output Signals	DIN PG11 cable gland
Process Connection	socket (38mm OD), quick clamp (optional), flange (optional)
Output Signals	- Isolated 4 - 20mA - Two SPDT relays: 5A, 24V AC/DC
Range Set Up	- Automatic, based on average measured dust flow during setup procedure
Relay Alarm Settings	- Automatic, set at factory: based on average measured dust flow  - User selectable ranges
Offset trim	Automatic drift compensation
Signal Damping Time (mA)	0-300 s
Relay Delay Time	0-180 s

## Process Conditions

Temperature	Max 300°C, Max 700°C (optional) Max 572 °F, Max 1292 °F (optional)
Pressure	Max 200 kPa, Max 600 kPa (optional) Max 43.5 PSI, Max 87 PSI (optional)
Gas Velocity	Min 4 m/s   Min 13.1 ft/s
Humidity	Max 95% RH (non-condensing)

## Ambient Conditions

Temperature	-20....+45°C and 60°C for 24 VDC -4 to 113 °F and to 140 °F for 24 VDC
Humidity	Max 95% RH (non-condensing)
Vibration	Max 5 m/s <sup>2</sup>   Max 16.4 ft/s <sup>2</sup>

## Materials

Probe (wetted part)	Stainless steel (AISI 316L)
Probe Coating (wetted part)	PTFE Teflon (optional)
Process Connection (wetted part)	Stainless steel (AISI 316L)
Probe Insulation (wetted part)	PEEK
Probe Sealing (wetted part)	FPM Viton
Enclosure	Aluminum alloy
Weight	2.3 kg   5.1 lb