

## Technical Data

Measurement principle:	cross correlation
Measurement range:	0 – 100 m / s
Typical accuracy:	+/- 2 %
Repeatability:	better than 99,95 %
Drift:	0 %
Maintenance/cleaning:	none
Linearity:	100 %
Hysteresis:	none
Calibration:	none
Gas temperature:	10 – 1000 °C (50 – 1800 °F)
Dust load range:	10 mg – 3000 g/m <sup>3</sup> (independent from dust content in combination with Range Extender)
Safety standards:	SIL 2 according EN 61508 for McON Air SIL
Enclosure type:	Rittal AE 1030.500
Dimensions:	380x300x155 mm (15x12x6")
Material:	sheet steel
Material option:	stainless steel enclosure AE 1004.600
Surface finish:	powder coated RAL 7035
Degree of protection:	IP 66, NEMA 4
Weight:	10 kg (22 lbs)
Mounting:	wall mounting brackets
Power supply:	85 – 264 VAC, 47 - 63 Hz or 24 VDC
Power consumption:	max. 0,8 A (115 VAC/24 VDC) 0,4 A (230 VAC)
Recommended circuit breaker:	10 A (characteristic C or slow blow fuse)
Temperature range (operation):	-20 – 55 °C (-4 – 130 °F)
Temperature range (storage):	-20 – 65 °C (-4 – 149 °F)
I/Os:	1x4...20 mA (active), 2xrelay (error contact)

Technical Changes Reserved

**For further information please contact:**

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# McON Air / McON Air SIL

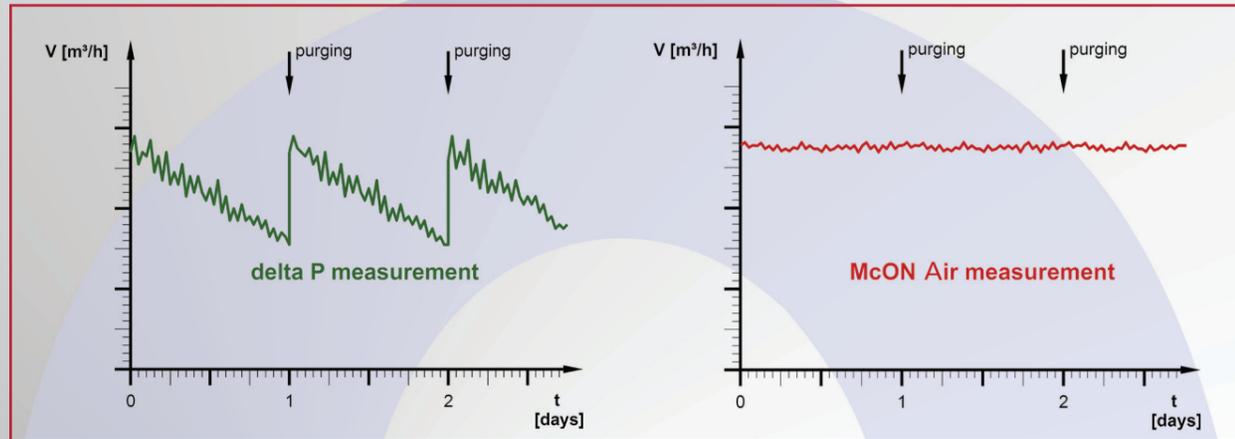
**Maintenance free  
gas flow measurement  
for hot and dusty media**



- Online gas flow measurement
- Highly accurate
- No calibration, no drift, no cleaning
- Not affected even by high dust levels
- Works up to 1000 °C
- SIL 2 version available

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## Drift and calibration free gas flow measurement



### In the past the choice was:

A conditional delta P measurement measures the mass flow accurately only for a limited time after cleaning. Hence a cyclical purging of the pressure tabs is necessary.

In case of fouling the delta P measurement will remain inaccurate even after cleaning.

### McON Air gives you:

McON Air will always remain accurate even with highest dust levels since it is based on a per time measurement - no cleaning even at highest dust levels (2000 g/m<sup>3</sup>). The actual flow is measured without the use of temperature and pressure measurements.

In addition the measurement always monitors the plausibility of the raw signals.

## Our customers' opinions:

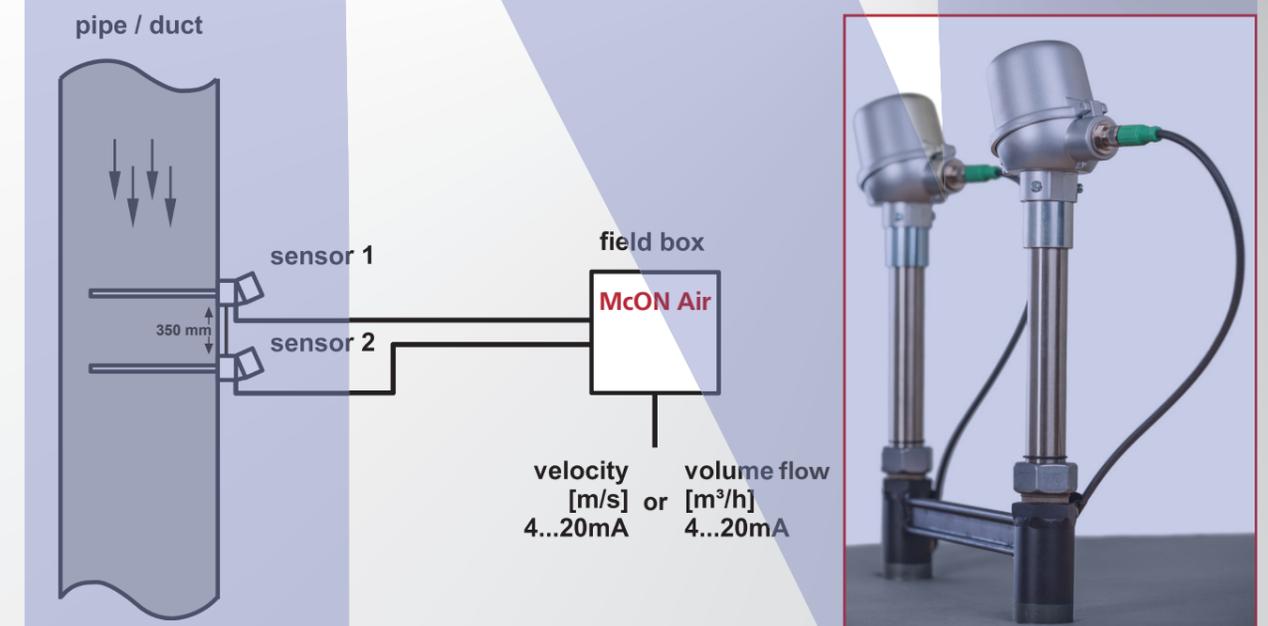
“ With McON Air we don't have to keep cleaning the measurement system. ”

“ I now know, that our measurement values are always repeatable since they don't drift. ”

“ Since we've had McON Air we don't have to worry about recalibrating. ”

“ Commissioning is dead simple and doesn't need calibration - truly plug & play. ”

## Installation via flange without calibration of the sensors



Sensors including metal bar connection