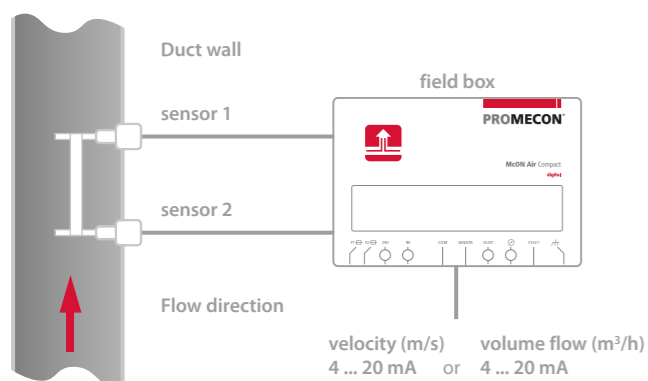




McON Air – Installation via flange without calibration of the sensors

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 (2.500 g /m³). 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.



Contact:

PROMECON
process measurement control GmbH
Steinfeldstraße 5 • D-39179 Barleben • Germany

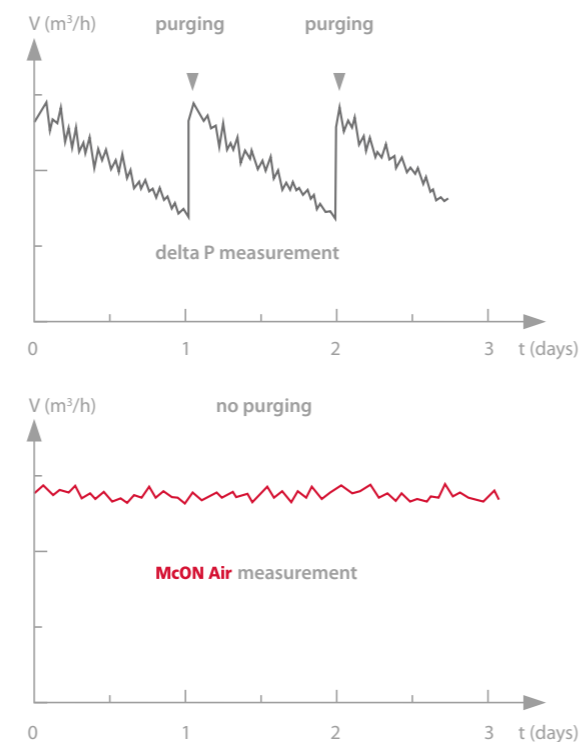
Phone +49 (0)39203-512-0 • Fax +49 (0)39203-512-202
info@promecon.com • www.promecon.com

PROMECON is a world leading developer and manufacturer of high end measurement technology for monitoring and optimizing thermal processes.

McON Air – Reliable flow measurement for hot and dust laden gases

The system measures the time of flight of unique signal patterns created by particles contained in the gas. Because the principle is time based it is accurate and drift free over the entire lifetime.

Drift and calibration free gas flow measurement



Technical Data

Measurement principle:	cross correlation
Measurement range:	0 – 100 m/s
Typical accuracy:	+/- 2 %
Repeatability:	better than 99,95 %
Drift:	no drift
Maintenance/cleaning:	none
Linearity:	100 %
Calibration:	none
Gas temperature:	10 – 1.000 °C (50 – 1.800 °F)
Dust load range:	10 mg – 2.500 g/m ³ (independent from dust content in combination with Range Extender)
Safety standards:	SIL 2 according EN 61508 for McON Air SIL
Dimensions:	380x300x155 mm (15x12x6")
Material:	sheet steel
Material option:	stainless steel enclosure 1.4301
Surface finish:	powder coated RAL 7035
Degree of protection:	IP66, NEMA4
Weight:	10 kg (22 lbs)
Mounting:	wall mounting brackets
I/Os:	1 x 4 ... 20 mA (active), 2 x relay (error contact, NC and No)
Power supply:	85 – 264 VAC, 45 – 65 Hz or 24 VDC optional
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:	1 x 4 ... 20 mA (active), 2 x relay (error contact)

Impressum:

Editor: PROMECON process measurement control GmbH
Steinfeldstraße 5 • D-39179 Barleben • Germany

Conception/Design/Layout: toolboxx-media, Magdeburg • Germany
Picture credits: toolboxx-media; faktorM; B&M Noskowskibetoon, industryview – istock



Operational cost reduction

through special technology for air and gas flow measurement

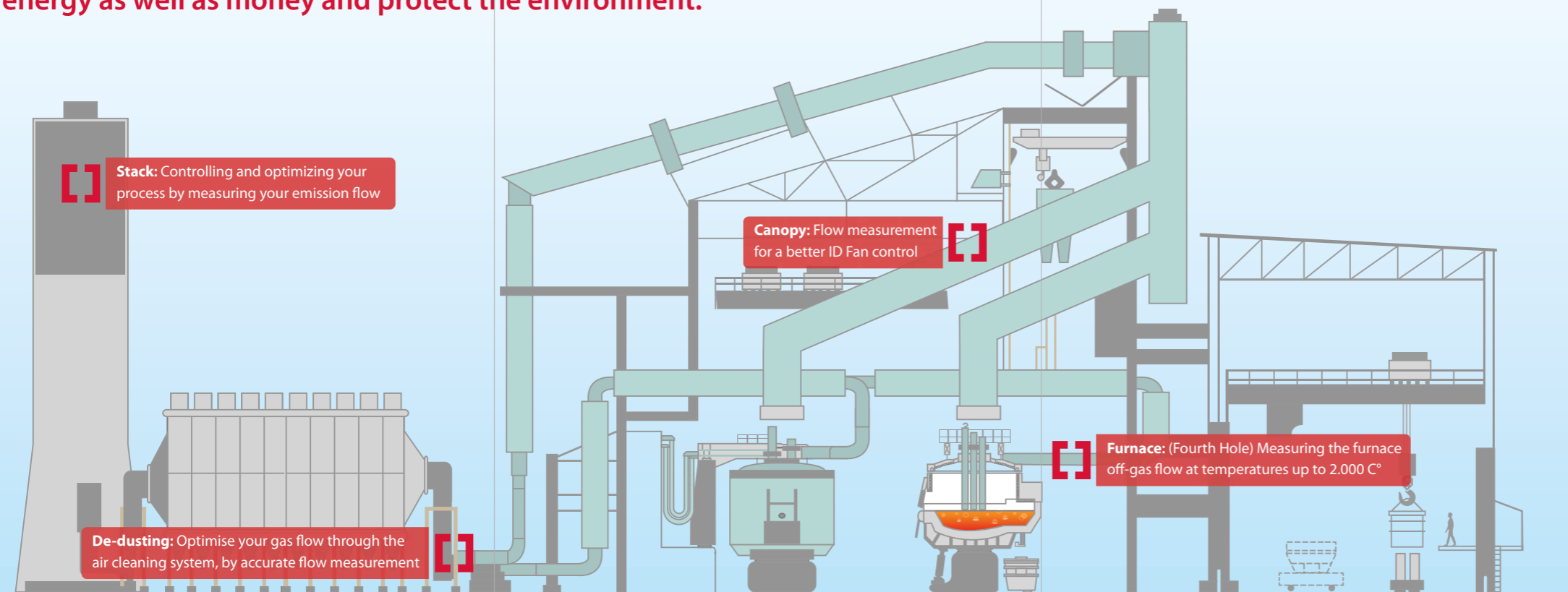


You can control what you can measure properly



Optimized Steel Making

The direct measurement of hot and dusty gases opens new ways to monitor and control the steel making and smelting process. McON Air, as well as our brand-new infrared system helps to maintain plant availability, save energy as well as money and protect the environment.



Benefits of using our innovative measurements in the steel & smelters industry

- ❑ Drift free velocity measurement
- ❑ Up to 2.000 °C / 3.630 °F process gas temperature
- ❑ No contact with hot process
- ❑ High penetration depth at the measuring cross section
- ❑ Automatic process adjustment
- ❑ Protection degree IP 66



McON Air Infrared –
Installation via flange without calibration of the sensors