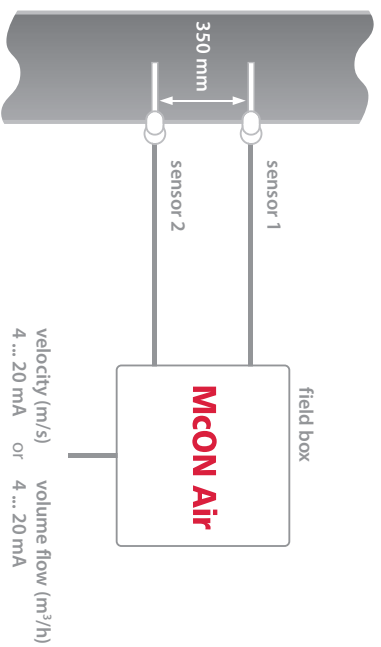




MCON Air – Installation via flange without calibration of the sensors

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:

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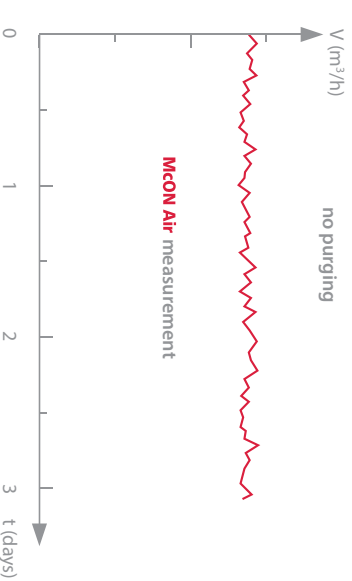
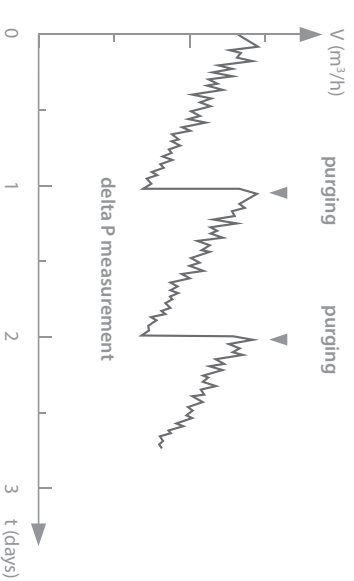
Phone +49 (0)39203-512-0 • Fax +49 (0)39203-512-202
info@promecon.com • www.promecon.com

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 ³ /s
Typical accuracy:	+/- 2 %
Repeatability:	better than 99,95 %
Drift:	no drift
Maintenance/cleaning:	none
Linearity:	100%
Calibration:	none
Gas temperature:	10 – 1.000 ° (50 – 1800 °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:	380 x 300 x 155 mm (1,5 x 1,2 x 6")
Material:	sheet steel
Material option:	stainless teel 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), 2x relay (error contract, 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)

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Operational cost reduction
through special technology
for air and gas flow measurement

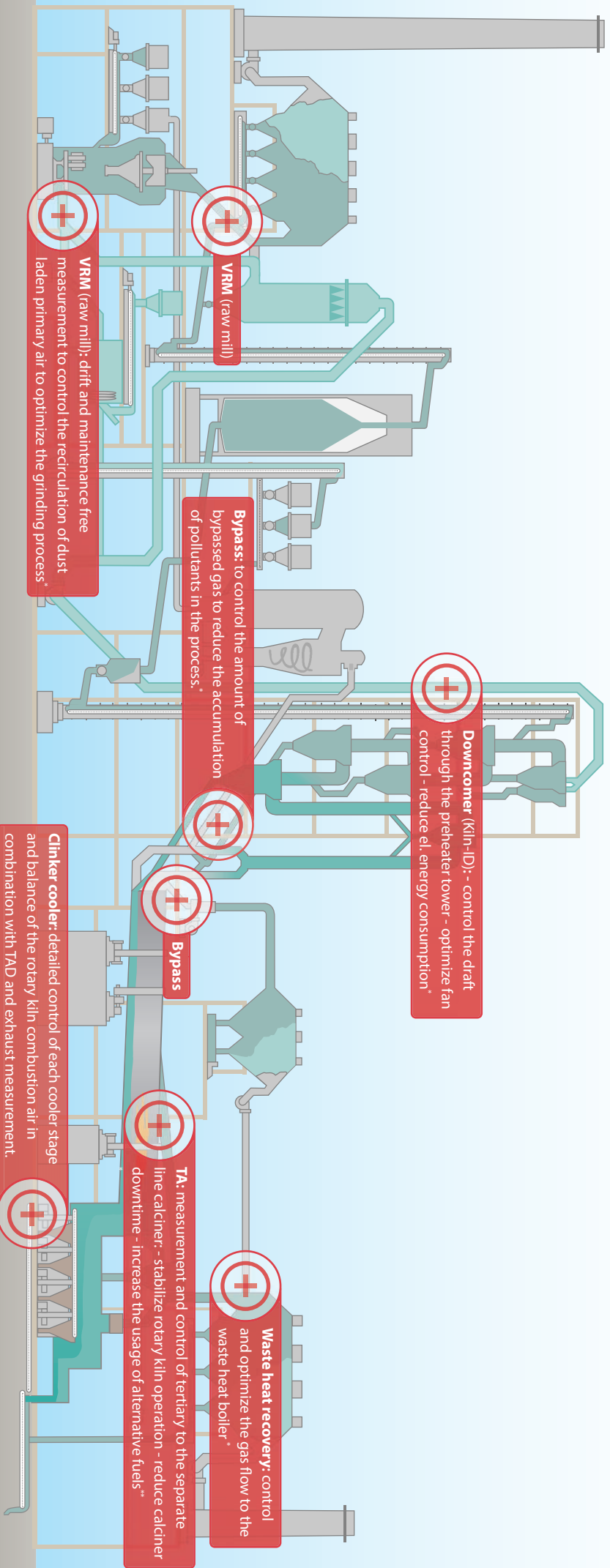
You can control what you can measure properly

www.promecon.com



MCON Air

The direct measurement of hot and dusty gases opens new ways to monitor and control the cement production process. MCON Air helps to maintain plant availability, save energy as well as money and protect the environment.



Benefits MCON Air

- + Digital Online Measurement
- + Easy to install and operate sensor system
- + Highly accurate (+/- 2%)
- + Highly temperature resistant (works up to 1.000°C)
- + Not affected even by high dust levels (up to 2.500 g/m³)
- + Drift- and calibration free
- + Maintenance free
- + Very cost effective (usual return on invest less than 3 months)



* reliable, drift and maintenance free measurement to control the gas flow
 ** unique measurement on the market