PROMECON®
we focus on your process

McON IR

Operational cost reduction through special technology for off-gas measurement

TO MEASURE IS TO KNOW

www.promecon.com

McON IR

McON IR –
System description

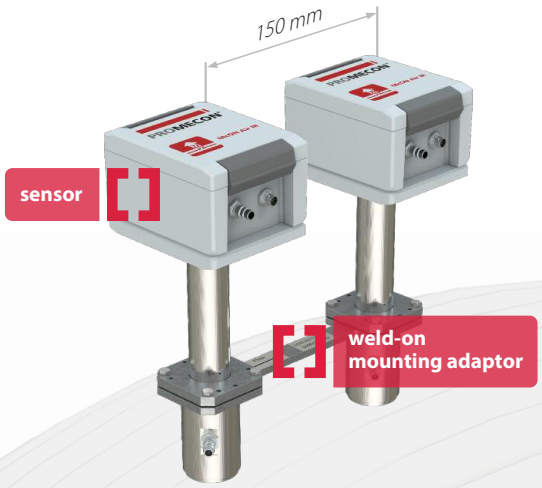
Components

McON IR Central Unit: evaluation unit

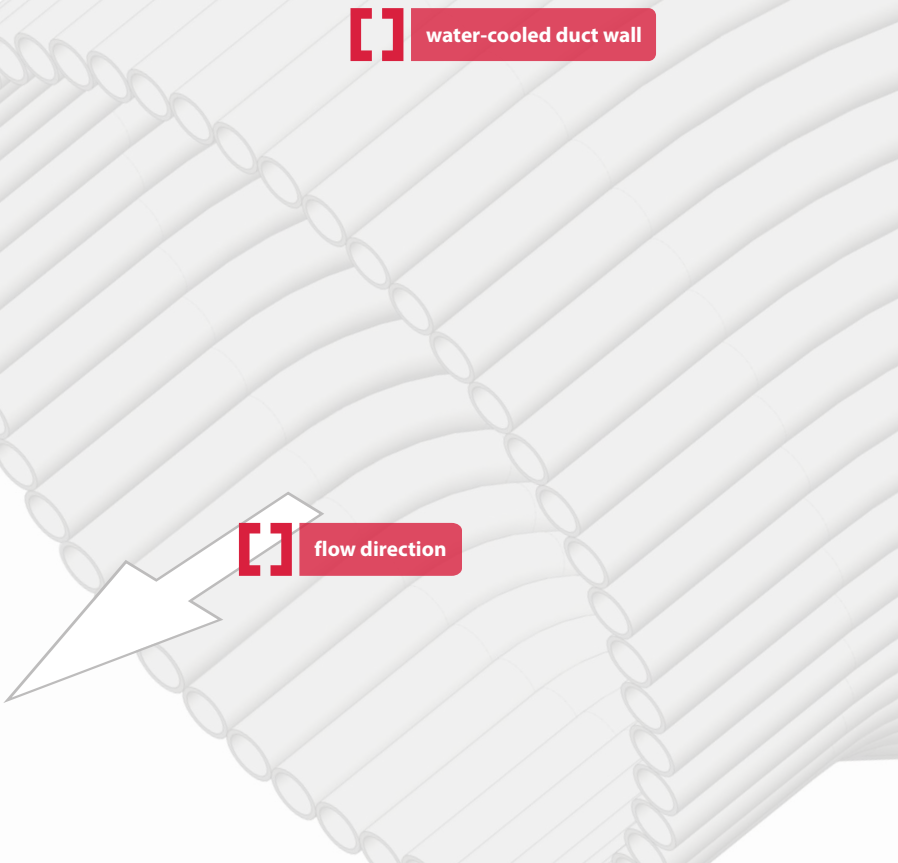
McON IR Field Box: purge air control and sensor connection

McON IR Sensor: high sensitivity IR sensors for measurement of velocity, Temp, CO_2, CO, CH_4, H_2O

Accessories: weld-on mounting adapter, cable and air hose sets



- IP 66 protected sensors, with pre aligned mounting adaptors
- Purge air / nitrogen connections on sensors and mounting adapters
- Air quality is managed by included filter and conditioning unit



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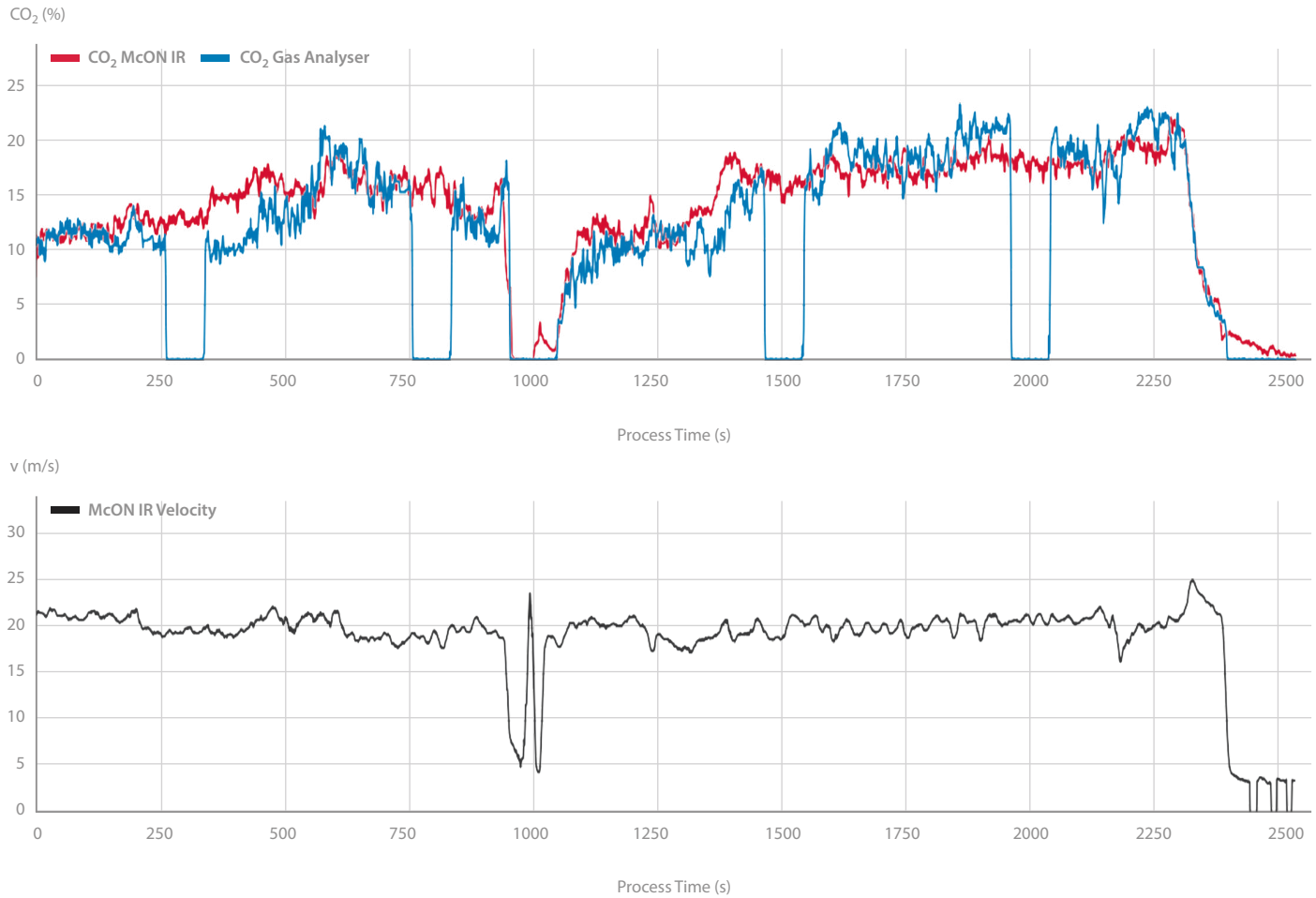
McON IR –
Electric Arc Furnace application

- Gas flow measurement directly after the 4th hole
- Measurement of chemical composition CO_2, CO, CH_4, H_2O
- Measurement of gas temperature
- Optimisation of electrode and refractory wear, efficiency and opertation cycles

Measurement of CO_2 and gas flow after the 4th hole of EAF



Benefits **McON** IR

- Unique measurement system for high temperature application (up to 2000°C)
- McON IR measures the air velocity directly and is calibration free
- The measurement principle is digital, reliable and absolutely drift free
- Direct gas-flow-measurement at the process outlet of EAF, BOF and lignite furnaces without additional flow by water quenchers
- Infrared (IR) sensors are non intrusive and have no wear, long operation intervals without cleaning

Furnace off-gas measurement

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