

**PROMECON®**

we focus on your process



# McON IR

Operational cost reduction  
through special technology  
for off-gas measurement



TO MEASURE IS TO KNOW

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**McON IR**

# McON IR – System description

## Components

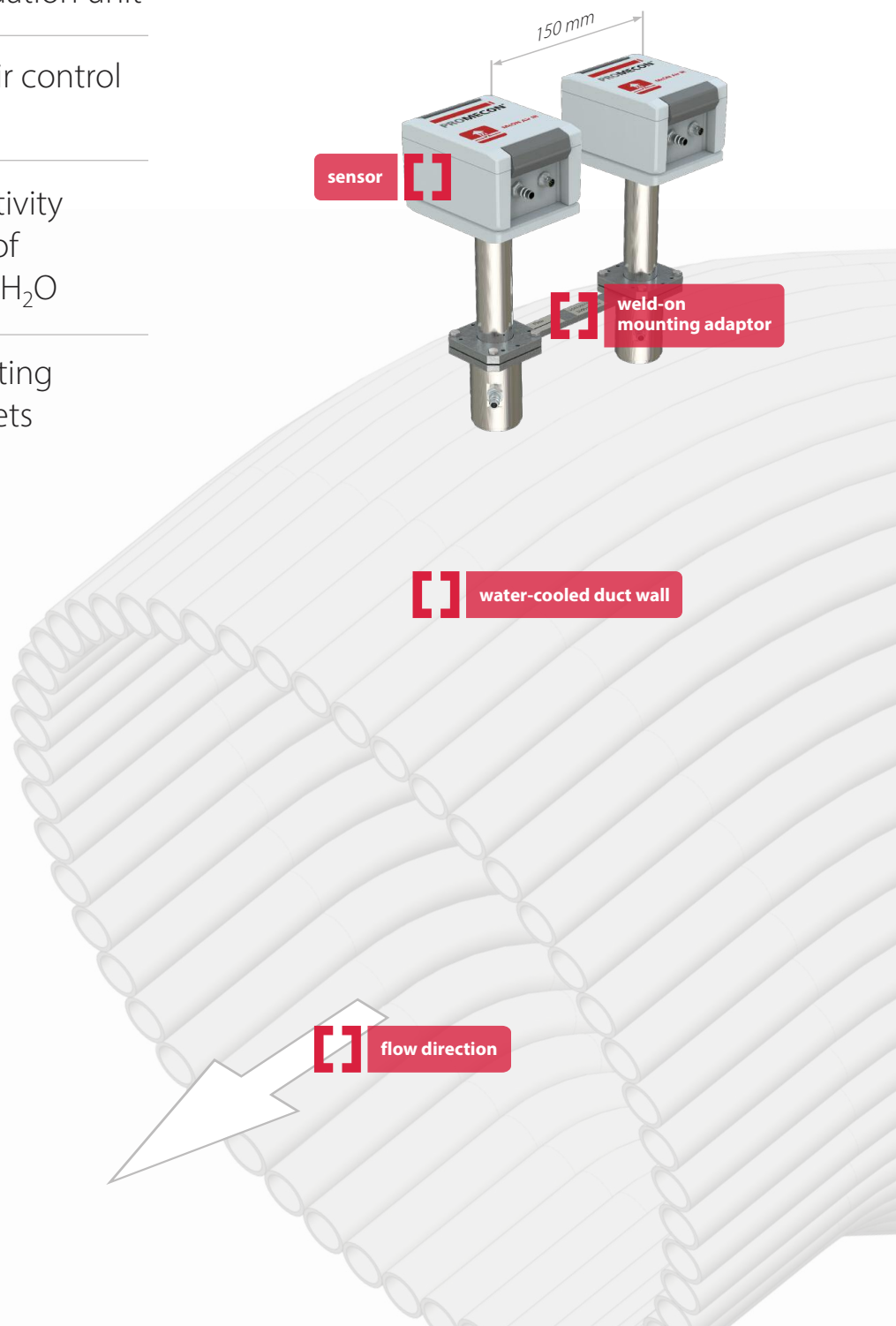
**McON IR Central Unit:** evaluation unit

**McON IR Field Box:** purge air control and sensor connection

**McON IR Sensor:** high sensitivity IR sensors for measurement of velocity, Temp, CO<sub>2</sub>, CO, CH<sub>4</sub>, H<sub>2</sub>O

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

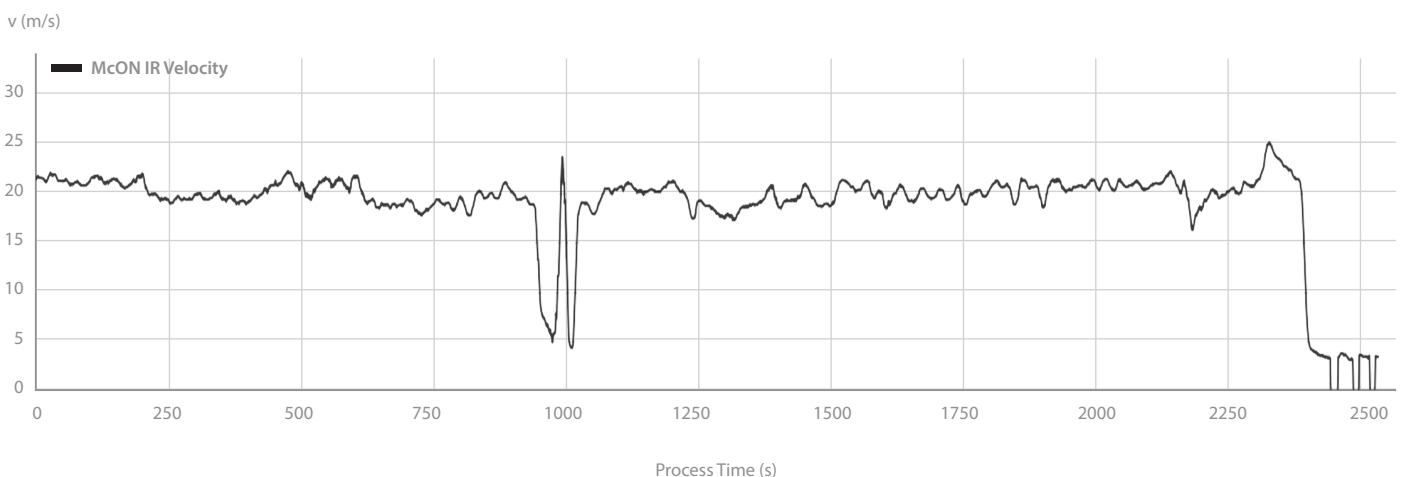
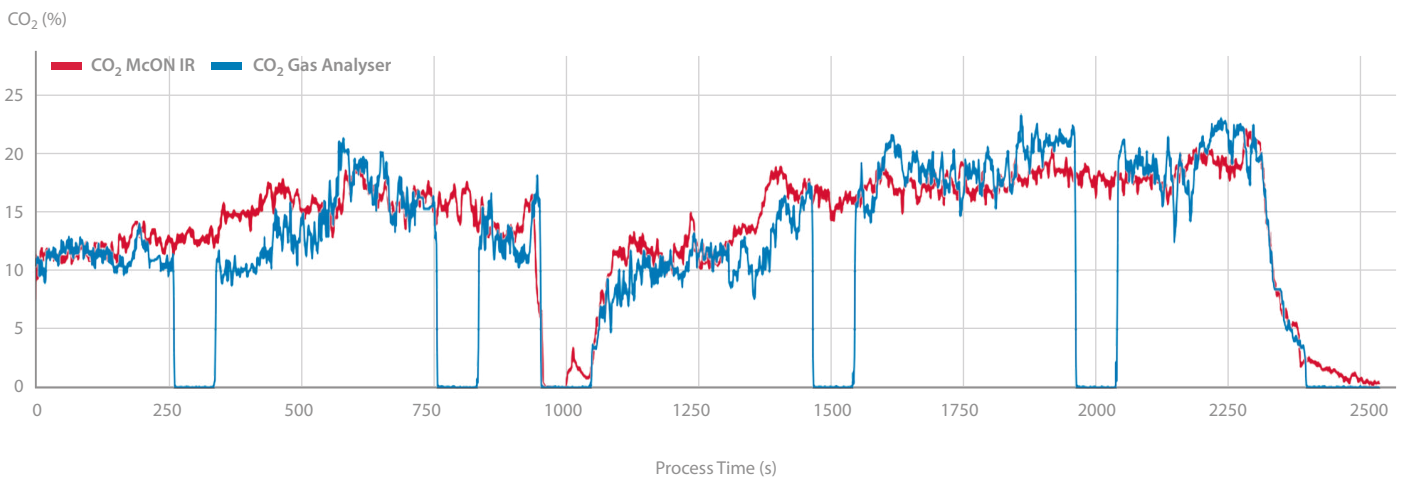
- ❑ IP 66 protected sensors, with pre aligned mounting adaptors
- ❑ Purge air/nitrogen connections on sensors and mounting adaptors
- ❑ Air quality is managed by included filter and conditioning unit



# McON IR – Electric Arc Furnace application

- ❑ Gas flow measurement directly after the 4th hole
- ❑ Measurement of chemical composition CO<sub>2</sub>, CO, CH<sub>4</sub>, H<sub>2</sub>O
- ❑ Measurement of gas temperature
- ❑ Optimisation of electrode and refractory wear, efficiency and operation cycles

## Measurement of CO<sub>2</sub> 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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