

## ProCeas®

### Process gas analyzer

- Available in pressurized enclosure (ATEX, IECEx and cUL)
- Continuous multi-gas measurement
- Reduced operational costs



## Features

- Continuous multi-gas measurement
- High resolution IR laser technology
- Patented OFCEAS TDL technology
- No optical moving parts
- Patented Low Pressure Sampling system
- Low gas consumption
- Maintenance: yearly
- Available in pressurized enclosure (ATEX, IECEx, cUL)

## Benefits

- Multi-gas measurement without cross-interference
- Self-calibrating system
- Large range of full scales (from % to ppb)
- Multi-application technology
- Zero information contained in the signal (no zero gas required)
- Fast response time
- Reduced operational costs (low gas consumption + low maintenance)
- High availability of the system

## Technical data

| Application*  | Gas measured*/range   | LoD*   |
|---|---|--|
| Chlorine production   | H <sub>2</sub> /O ... 5%<br>O <sub>2</sub> /O ... 1%<br>CO <sub>2</sub> /O ... 5%<br>H <sub>2</sub> O/O ... 1 000 ppm   | H <sub>2</sub> : 3 ppm<br>O <sub>2</sub> : 1 ppm<br>CO <sub>2</sub> : 1 ppm<br>H <sub>2</sub> O: 0.01 ppm  |
| Analysis in hydrocarbons<br>(e. g. coke gas, pulp + paper,<br>pure ethylene...) | H <sub>2</sub> S/on request<br>NH <sub>3</sub> /on request<br>H <sub>2</sub> O/on request<br>C <sub>2</sub> H <sub>2</sub> /on request  | H <sub>2</sub> S <0.05 ppm<br>NH <sub>3</sub> <0.05 ppm<br>H <sub>2</sub> O <0.05 ppm<br>C <sub>2</sub> H <sub>2</sub> <0.05 ppm   |
| Steam methane reforming   | H <sub>2</sub> S/O ... 50 ppm   | H <sub>2</sub> S <0.01 ppm   |
| DeNOx   | NH <sub>3</sub> /O ... 100 ppm  | NH <sub>3</sub> : 0.05 ppm   |
| Biogas  | CH <sub>4</sub> /O ... 100%<br>CO <sub>2</sub> /O ... 100%<br>O <sub>2</sub> /O ... 25%<br>C <sub>2</sub> H <sub>6</sub> /O ... 10%<br>H <sub>2</sub> O/O ... 10%<br>H <sub>2</sub> S/O ... 10%<br>NH <sub>3</sub> /O ... 1 000 ppm | CH <sub>4</sub> <0.1%<br>CO <sub>2</sub> <0.05%<br>O <sub>2</sub> <0.05%<br>C <sub>2</sub> H <sub>6</sub> <0.1%<br>H <sub>2</sub> O <5 ppm<br>H <sub>2</sub> S: 0.05 ppm<br>NH <sub>3</sub> : 0.05 ppm |
| VCM production  | HCl/O ... 100 ppm   | HCl: 0.05 ppm  |

\* Non-exhaustive lists/configuration + measures adaptable on request

\* LoD: 3σ over a period of 60 s, σ: standard deviation

| Analyzer              |   |
|-----------------------|---|
| Power supply          | 110 ... 230 VAC, 50 ... 60 Hz, 150 W max 80 W average         |
| Compressed air supply | Class 1.2.1 (ISO 8573-1), 3 barg at max 5.5 l/min             |
| Ambient conditions    | +5 ... +40 °C (temperature), 10 ... 90 % (RH), non-condensing |
| Degree of protection  | Up to IP65, according to IEC 60529                            |
| Probe connections     | OD (6 mm) or imperial (1/4")                                  |
| EX versions           | Available on request  |

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