DURAG GROUP

ProCeas®

Process gas analyzer

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

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FEATURES

- Continuous multigas 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

- Multigas measurement without cross-interferences
- 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_2/0 ... 5% O_2/0 ... 1% CO_2/0 ... 5% H_2O/0 ... 1,000 ppm	H_2: 3 ppm O_2: 1 ppm CO_2: 1 ppm H_2O: 0.01 ppm
Analysis in Hydrocarbons (e. g. coke gas, pulp + paper, pure ethylene...)	H_2S/on request NH_3/on request H_2O/on request C_2H_2/on request	H_2S <0.05 ppm NH_3 <0.05 ppm H_2O <0.05 ppm C_2H_2 <0.05 ppm
Steam Methane Reforming	H_2S/0 ... 50 ppm	H_2S <0.01 ppm
DeNOx	NH_3/0 ... 100 ppm	NH_3: 0.05 ppm
Biogas	CH_4/0 ... 100% CO_2/0 ... 100% O_2/0 ... 25% C_2H_6/0 ... 10% H_2O/0 ... 10% H_2S/0 ... 10% NH_3/0 ... 1,000 ppm	CH_4<0.1% CO_2<0.05% O_2<0.05% C_2H_6<0.1% H_2O<5 ppm H_2S: 0.05 ppm NH_3: 0.05 ppm
VCM production	HCl/0 ... 100 ppm	HCl: 0.05 ppm

* Non-exhaustive lists/configuration + measures adaptable upon request
* LoD: 3σ over a period of 60 sec, σ: Standard deviation

Analyzer	
Power supply	110 ... 230 VAC, 50 ... 60 Hz, 150 W max. 80 W average
Instrument 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
IP protection class	Up to IP65, according to IEC 60529
Probe connections	OD (6 mm) or Imperial (1/4")
EX versions	Available under request

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