

ProCeas

CO₂ purity analyzer for carbon capture and storage – CCS

- Measurement compliant with Northern Lights specifications
- Continuous multi-gas measurement
- Available in pressurized enclosure (ATEX, IECEx, cUL)



FEATURES

- Continuous multi-gas measurement
- High resolution IR laser technology
- Patented OFCEAS TDL technology
- No optical moving parts
- Patented low pressure sampling system
- Low sample gas consumption (< 2.4 to 20 slh)
- Maintenance: Yearly
- Available in pressurized enclosure (ATEX, IECEx, cUL)

BENEFITS

- Measurement compliant with Northern Lights specifications
- Multi-gas measurement without cross-interference
- Recommended method for pure carbon dioxide handling
- Measurement also available in other matrix stream (Ar, N₂, He, H₂)
- Zero information contained in the signal (no zero gas required)
- Online or gas cylinder analysis
- No carrier gas needed

TECHNICAL DATA

Gas	Range* (ppm)	LoD* (ppm)	Northern Lights specifications (ppm)
H ₂ O	0 ... 100	0.1	<30
O ₂	0 ... 100	0.1	<10
SO ₂	0 ... 100	0.5	<10
NO/NO ₂ (NO _x)	0 ... 100	0.1/0.2	<10
H ₂ S	0 ... 50	0.03	<9
CO	0 ... 200	1	<100
NH ₃	0 ... 10	0.05	<10
HCHO	0 ... 40	0.05	<20
For non-listed gases please contact us.			
Linearity: < 1% range, R ² > 0.999 Repeatability: 3*LoD or +/-0.5% relative Response time: < 30 s (all gases) except NH ₃ , HCl (< 100 s) Drift zero/span: Negligible			

Analyzer	
Power supply	110 ... 230 VAC, 50 ... 60 Hz, 150 W max 80 W average
Ambient conditions	+10 ... +35 °C (temperature) 10 ... 90% RH, non-condensing
Degree of protection	Up to IP65, according to IEC 60529
Probe connections	Metric or imperial
Ex versions	Available on request

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

* Range: Can be adapted on request

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