

ProCeas[®] ATEX/IECEX

H₂S gas analyzer in Natural Gas

CO₂, CH₄, C₂H₆ and H₂O optional gases to measure

- Continuous multi-gas measurement
- Direct measurement without degrading the sample
- Reduced operational costs



Features

- Continuous measurement
- High resolution laser technology
- No optical moving parts
- ATEX II2G (Ex db IIB+H₂ T6 Gb) IECEx (Ex db IIB+H₂ T6 Gb)
- Direct measurement without degrading the sample (no scrubber needed)
- Patented Low Pressure Sampling system
- No compressed air consumption
- Maintenance: yearly

Benefits

- High sensitivity
- Self-calibrating system (no span gases required)
- Ultra-precise measurement
- Very fast response time
- Reduced operational costs (no gas cylinder, no compressed air, low power consumptions)
- High availability of the system

Technical data

Gas	Range		STD
	Typical	Max	1 σ
H ₂ S (ppm)	0 ... 50	0 ... 1000	0.01
CO ₂ (%vol)	0 ... 5	0 ... 20	0.03
H ₂ O (ppm) (optional)	0 ... 50	0 ... 500	0.05
CH ₄ (%vol) (indicative)	0 ... 100		0.02
C ₂ H ₆ (%vol) (indicative)	0 ... 10	0 ... 20	0.05

Linearity: <1% of reading, R²>0.999
 Repeatability: 3*LoD or +/-0.5% relative
 Response time: <10 s
 Drift zero / span: negligible

Typical stream composition			
Component	Minimum	Typical	Maximum
H ₂ S (ppm)	0	10	1000
CH ₄ (% vol)	0	80	100
C ₂ H ₆ (% vol)	0	3	20
C ₂ H ₄ (ppm)	0	10	100
C ₂ H ₂ (% vol)	0	0.1	1
C ₃ H ₈ (% vol)	0	1	15
Others (C4+)	0	<5% vol	
N ₂ , O ₂ , H ₂		<20% vol	
CO ₂ (% vol)	0	5	20
H ₂ O (% vol)	0	0.01	<3%

Analyzer	
Technique*	OFCEAS TDL combined with LPS
Power supply	110 ... 230 VAC, 50 ... 60 Hz
Power consumption	150 W (max), 80 W (average)
Ambient conditions	-20 ... +60 °C (shaded temperature)
Degree of protection	IP65, according to IEC 60529
Weight	<80 kg
Dimensions	600 x 510 x 308 mm
Communication, data output	Ethernet, ModBus (TCP/IP, RS), analog, USB
Analogue Input	Isolated, 0 ... 3.3 V
Outlet pressure	ATM +/-200 mb
Sample flow rate	>2400 sccm (min)

* The principles of measurement are covered by 2 patents
 σ : standard deviation

AP2E

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