

## ProCear<sup>®</sup> ATEX/IECEX

H<sub>2</sub>S Gas Analyzer in Natural Gas

CO<sub>2</sub>, CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, and H<sub>2</sub>O optional gases to measure



## Features

- Continuous measurement
- High resolution laser technology
- Patented OFCEAS TDL 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 instrument 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 $\sigma$
H <sub>2</sub> S (ppm)	0 ... 50	0 ... 1000	0.002
CO <sub>2</sub> (%vol)	0 ... 5	0 ... 20	0.03
H <sub>2</sub> O (ppm) (optional)	0 ... 50	0 ... 500	0.05
CH <sub>4</sub> (%vol)	0 ... 100		X
C <sub>2</sub> H <sub>6</sub> (%vol)	0 ... 10	0 ... 20	X
Linearity	<1% of reading		
Repeatability	0.5% of reading +/-6 ppb (for H <sub>2</sub> S + H <sub>2</sub> O)		
Response time	<10s		
Drift zero/span	Negligible		

Typical stream composition			
Component	Typical	Minimal	Maximal
H <sub>2</sub> S (ppm)	10	0	1000
CH <sub>4</sub> (%vol)	80	0	100
C <sub>2</sub> H <sub>6</sub> (%vol)	3	0	20
C <sub>3</sub> H <sub>8</sub> (%Vol)	1	0	15
Others (C4+)	<5%Vol	0	<5%Vol
N <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub>	<20 %Vol		
CO <sub>2</sub> (%vol)	<5	0	<20
H <sub>2</sub> O (%vol)	0.01	0	100
Analyzer			
Technique	OFCEAS TDL combined with LPS, the principles of measurement are covered by 2 patents		
Power supply	110 ... 230 VAC, 50 ... 60 Hz		
Power consumption	180 VA		
Ambient conditions	-20 ... +55 °C (temperature)		
IP protection class	IP65, according to IEC 60529		
Physical info	Weight <80 kg Dimensions 600 x 510 x 308 mm		
Communication data output	Ethernet, ModBus (TCP/IP, RS), analog, USB		
Sample flow rate	>2.4 slh		