

## ProCeas® ATEX/IECEX

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

- Continuous multigas 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+H<sub>2</sub> T6 Gb)  
IECEX (Ex db IIB+H<sub>2</sub> 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
- Lowest detection limit on the market
- Very fast response time
- Reduced operational costs (no gas cylinder, no compressed air, low power consumptions)
- High availability of the system

## TECHNICAL DATA

Gas	Standard range	LOD 3 $\sigma$ 60s
H <sub>2</sub> O – High (ppm)	1 ... 500	<0.1
H <sub>2</sub> O – Low (ppm)	0 ... 50	<0.01
Linearity: <1% of reading, R <sup>2</sup> >0.999 Repeatability: 3* $\sigma$ or +/-0,5% relative Response time: <10 s Drift zero/span: Negligible		

Typical stream composition			
Component	Minimal	Typical	Maximal
H <sub>2</sub> S (ppm)	0	10	1,000
CH <sub>4</sub> (%vol)	0	80	100
C <sub>2</sub> H <sub>6</sub> (%vol)	0	3	20
C <sub>2</sub> H <sub>4</sub> (ppm)	0	10	100
C <sub>2</sub> H <sub>2</sub> (%vol)	0	0.1	1
C <sub>3</sub> H <sub>8</sub> (%vol)	0	1	15
Others (C4+) (%vol)	0	<5	
N <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> (%vol)		<20	
CO <sub>2</sub> (%vol)	0	5	100
H <sub>2</sub> 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 (stabilized)
Ambient conditions	-20 ... +60 °C (shaded temperature)
IP protection class	IP66, 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	>2,400 sccm (min)

\* the principles of measurement are covered by 2 patents

$\sigma$  Standard deviation

### AP2E SAS

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