DURAG GROUP

ProCeas® ATEX/IECEx

H_2S Gas Analyzer in Natural Gas
CO_2, CH_4, C_2H_6 and optional gases to measure

- Continuous multigas measurement
- Direct measurement without degrading the sample
- Reduced operational costs

ap 2e
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FEATURES

- Continuous measurement
- High resolution laser technology
- No optical moving parts
- ATEX II2G (Ex db IIB+H_2 T6 Gb)
  IECEx (Ex db IIB+H_2 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	Standard range	LOD 3σ 60s
H_2S – High (ppm)	0 ... 2,000	<0.1
H_2S – Low (ppm)	0 ... 500	<0.03
CO_2 (%vol) (optional)	0 ... 20	0.03
CH_4 (%vol) (indicative)	0 ... 100	<0.1
C_2H_6 (%vol) (indicative)	0 ... 20	<0.1
Linearity: <1% of reading, R^2>0.999 Repeatability: 3*lod or +/–0,5% relative Response time: <10 s Drift zero/span: Negligible		

Typical stream composition			
Component	**Minimal**	**Typical**	**Maximal**
H_2S (ppm)	0	10	1,000
CH_4 (%vol)	0	80	100
C_2H_6 (%vol)	0	3	20
C_2H_4 (ppm)	0	10	100
C_2H_2(%vol)	0	0.1	1
C_3H_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_2O (%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
σ Standard deviation

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