DURAG GROUP

ProCeas® Air

OFCEAS laser analyzer

- Sensitivity down to ppb
- Continuous measurement
- Fast response time

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Features

- Continuous measurement
- Multi components
- High resolution laser technology
- Patented OFCEAS IR laser technology
- No optical moving parts
- Patented Low Pressure Sampling system
- No compressed air consumption
- Maintenance: yearly

Benefits

- Measurement without interference regardless of the matrix
- High sensitivity
- Self-calibrating system (no span gases required)
- Very fast response time
- Ultra-precise measurement
- Negligible drift
- High availability of the system
- No water condensation from sampling point to analyzer due to Low Pressure Sampling

Technical data

Analyzer (1/2)	
Technique	OFCEAS
Power supply	110 … 230 VAC, 50 … 60 Hz
Power consumption	150 W (max), 80 W (average)
Dimensions	Rack 19", 4U
Weight	20 kg
Data outputs	Ethernet, ModBus (TCP/IP, RS), analog, USB

Analyzer (2/2)	
Fittings	1/4" or OD6
Pumping system	External Closed loop (optional)
Sample conditions	–40 … 50 °C (temperature) <99% RH non-condensing Atm +/–100 mbar (pressure) 0.2 slm, 0.33 slm (for NH_3)
Ambient conditions	10 … 40 °C (temperature) <99% RH non-condensing

Performance in air			
Gas	**Standard ranges**	**LoD***	**Response time***
CO	0 … 50 ppb; 0 … 30 ppm	1 ppb	<2 s
CO_2	0 … 300 ppm; 0 … 2% vol	<0.5 ppm	<2 s
COS	0 … 50 ppb; 0 … 10 ppm	1 ppb	<2 s
CH_4	0 … 1 ppm; 0 … 50 ppm	1 ppb	<2 s
CHOH	0 … 1 ppm; 0 … 100 ppm	1 ppb	<10 s
HF	0 … 100 ppb; 0 … 1 ppm	0.05 ppb	<90 s

Performance in air			
Gas	**Standard ranges**	**LoD***	**Response time***
HCl	0 … 100 ppb; 0 … 1 ppm	0.05 ppb	<30 s
NH_3	0 … 300 ppb; 0 … 5 ppm	0.1 ppb	<30 s
H_2S	0 … 300 ppb; 0 … 5 ppm	2 ppb**	<2 s
N_2O	0 … 300 ppb; 0 … 250 ppm	2 ppb	<2 s
H_2O	0 … 5% vol	360 ppm	<30 s
Linearity: <1% range, R^2>0.999 Repeatability: 3*LoD or +/–0.5% relative			

* Response time: 10% to 90%
* LoD: 3σ over a period of 60 s, σ: standard deviation
** For H_2S, LoD: 1σ, 5 min

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