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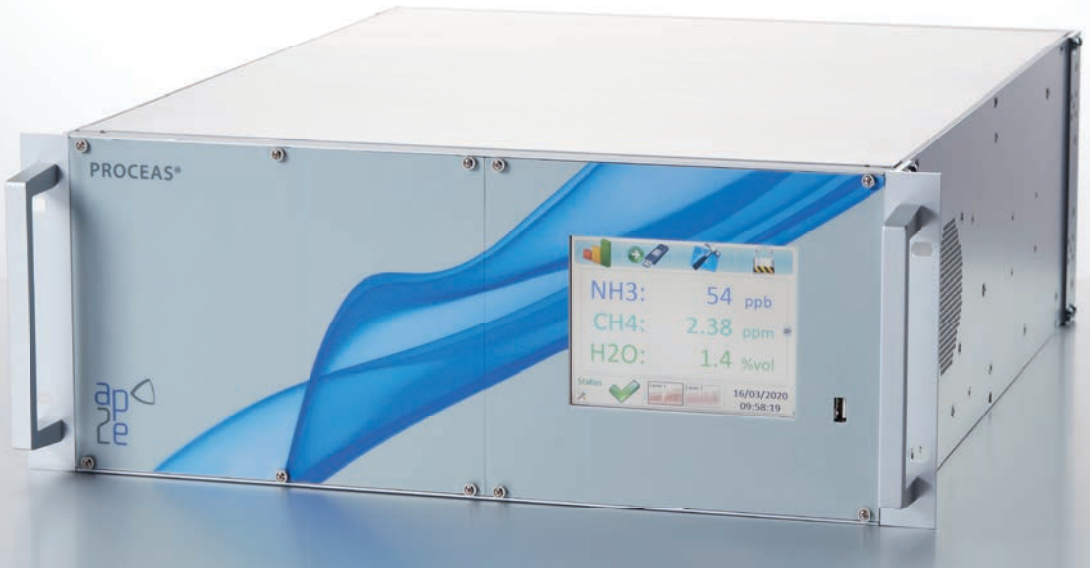
ProCeas® Air

N_2O, CH_4, CO_2, NH_3 and H_2O, OFCEAS laser analyzer

- Sensitivity down to ppb
- Continuous measurement over the 5 gases
- 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 specifications (N_2O, CH_4, CO_2, NH_3 and H_2O, in ambient air)						
Gas		**N_2O**	**CH_4**	**CO_2**	**NH_3**	**H_2O**
Lower detection limit (3σ, 300 s)		<6 ppb	<6 ppb	<500 ppb	<6 ppb	<360 ppm
Precision (1σ)	1 s	5 ppb + 0.1% of reading	5 ppb + 0.1% of reading	300 ppb + 0.1% of reading	<5 ppb	<300 ppm
	10 s	4 ppb + 0.1% of reading	4 ppb + 0.1% of reading	1 ppb + 0.1% of reading	<4 ppb	<200 ppm
	300 s	2 ppb + 0.1% of reading	2 ppb + 0.1% of reading	180 ppb + 0.1% of reading	<2 ppb	<120 ppm
Measurement interval		1 s	1 s	1 s	1 s	1 s
Response time / fall time (10 … 90%)		<2 s	<2 s	<2 s	<30 s	<30 s
Measurement range	Guaranteed Operational	0.1 … 200 ppm 0 … 400 ppm	1 … 15 ppm 0 … 20 ppm	300 … 5 000 ppm 0 … 2% vol	0 … 1000 ppb 0 … 10 ppm	0 … 3% vol 0 … 5% vol
Cross-sensitivity on N_2O	No cross-sensitivity with CO_2 (up to 5% vol), CH_4 (up to 500 ppm), NH_3 (up to 10 ppm), C_2H_6 (up to 200 ppm), C_2H_4 (up to 50 ppm) and C_2H_2 (up to 20 ppm)					

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