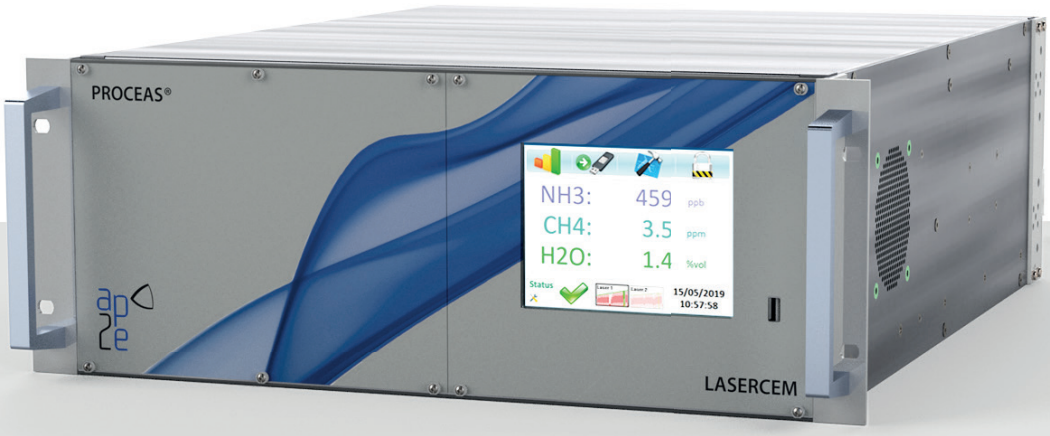
DURAG GROUP

ProCeas® Air

NH_3, OFCEAS Laser Analyzer



Features

- Continuous measurement
- Multi components
- High resolution laser technology
- Patented OFCEAS IR laser technology
- No optical moving parts
- Patented low pressure sampling system
- No instrument air consumption
- Maintenance: yearly
- Validation of the measurement by a surrogate material (CH_4 @15 to 40ppm)

Benefits

- Measurement without interferences 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 analyser due to low pressure sampling

Technical data

Analyzer	
Technique	OFCEAS
Power supply	110 … 230 VAC, 50 … 60 Hz
Power consumption	150 VA
Dimensions	Rack 19'', 4U
Weight	20 kg
Data outputs	Ethernet, ModBus (TCP/IP, RS), analog, USB
Fittings	1/4'' Swagelok
Accessories	External pump
Sample conditions	–10 … 45 °C (temperature) <99% RH non condensing Atm +/– 100 mbar (pressure) >0.4 slm (flow)
Ambient conditions	5 … 40 °C (temperature) <99% RH non condensing

Performances specifications (NH_3 in Ambient Air)	
Lower detection limit (3σ, 300 sec)	<0.05 ppb
Zero drift (72 hrs)	±0.20 ppb
Precision (1σ)	0.3 ppb + 0.1% of reading (1 sec) 0.09 ppb + 0.1% of reading (10 sec) 0.015 ppb + 0.1% of reading (300 sec)
Measurement interval	1 sec
Response time/fall time (10–90%)	<90 sec
Measurement range	0 … 1000 ppb (guaranteed) 0 … 10 ppm (operational)
Additional gases (options)	N_2O (0 … 50 ppm) CH_4 (0 … 50 ppm) H_2O (0 … 5%vol)

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