SYSTÈMES DE MESURE EN CONTINU : PROCESS & ÉMISSIONS



Tunable Diode Laser Spectroscopy



VERSIONS OF THE LAS 300 XD ARE AVAILABLE TO MEET YOUR ANALYTICAL REQUIREMENTS:

- LAS 300 XD NH₃ for ammonia (NH₃) and water (H₂O) monitoring
- LAS 300 XD **CO** for low and high concentration carbon monoxide (CO) monitoring
- LAS 300 XD **HCI** for hydrochloric acid (HCI) and water (H₂O) monitoring
- LAS 300 XD HF for hydrofluoric acid (HF) monitoring
- LAS 300 XD O2 for oxygen (O2) monitoring



including LaserTool® advanced software for setup and operations

MAIN BENEFITS:

- High sensitivity ppb, ppm and % concentrations
- Interference-free gas measurements
- Large dynamic range
- Absolute measurements: no drift, no calibration, linear response
- Real-time 1s response
- In-situ and non-invasive measurement
- Suitable for harsh environments. Unaffected by contaminants - no corrosion
- Small size
- No sample lines required, eliminating errors due to gas sampling
- Low maintenance and low cost of ownership

MAIN APPLICATIONS:

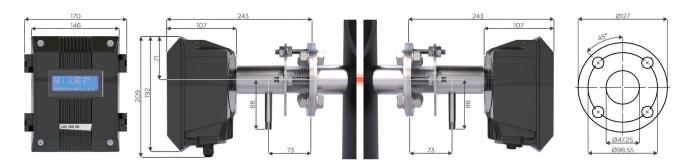
Process & emission monitoring for:

- Scrubber technology
- Combustion control
- Chemical industry
- Fertilizer plants
- Waste incinerators
- Cement industry
- Glass industry
- Pulp and paper
- Biomass boilers
- Petrochemical industry



NH₃ • CO • HCl • H₂O • HF • O₂

Tunable Diode Laser Spectroscopy LAS 300 XD



Measurement ranges:	
	0 - 15 ppm / 0 - 500 ppm + 0 - 5% / 0 - 50%
нсі + н,о	0 - 10 ppm / 0 - 3000 ppm + 0 - 5% / 0 - 50%
	0 - 100 ppm
7	0 - 500 ppm
CO (high)	
O ₂	0 - 10% / 0 - 100%
Accuracy:	≤ ±2% of full scale
Response time (0-90%):	1s
Linearity:	≤ ±1% of full scale
Process gas (°C max):	
NH ₃ + H ₂ O / HCl + H ₂ O / HF	+400°C
CO (low) / CO (high) / O ₂	+1200°C
Process gas pressure:	Typical max. 2 bar absolute
Display:	4 x 20 alphanumeric LED backlit LCD
Input signals:	Optional temperature
	and pressure inputs (4-20 mA)
Communication:	Modbus RTU
Output signals:	x2 analog outputs (4-20 mA), x2 relays
Power supply:	+ 24 V DC, ripple and noise 50 mV
Power:	15 W when starting-up the LAS 300 XD < 15 W in normal operation
Ambient operating (°C):	-10°C to +55°C
Enclosure rating:	IP65
Enclosure material:	Die-cast aluminium (polyester powder coated)
Mounting flange size:	DN40 PN20 or 1.5" 150lb ANSI
Mounting flange material:	SS 316 L
Air purge consumption:	10-50 L/min
	(depends on application conditions)
Stack temperature:	0-450°C (other temperatures upon request)
Stack diameter:	0.5 to 6 m

MAIN OPTIONS:

- IP67 Junction box (for power and signal)
- Purge air unit (blower, filters, flow meters, pressure regulator)
- Connecting cable (usb) RS485 or RS232
- In-line span check cell ①
- Weather protection covers
- Specific flanges (length / material / C°)
- Remote interface
- Audit cell (with tripod) ②
- Optical alignment tool ③



THE STANDARD LAS 300 XD IS SUPPLIED WITH:

- 1 signal cable, between the Transmitter and Receiver (10 m standard and 25 m optional)
- 2 cables for power supply and signal outputs (each 3 m long)
- 2 alignment bellows (type: ASME B16.6 class 150)
- LaserTool® software

Distributed by:



111 BD Robespierre / CS 80004 78304 Poissy CEDEX 4 - FRANCE Tél : +33(0)1 39 22 38 00

Web: www.envea.global

E-mail : info@environnement-sa.com







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