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 HCl for hydrochloric acid (HCl) and water (H₂O) monitoring
- LAS 300 XD HF for hydrofluoric acid (HF) monitoring
- LAS 300 XD O₂ for oxygen (O₂) monitoring

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

including LaserTool® advanced software for setup and operations
**Measurement ranges:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Range 1</th>
<th>Range 2</th>
<th>Range 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{NH}_3 ) + ( \text{H}_2\text{O} )</td>
<td>0 – 500 ppm</td>
<td>0 – 50 ppm</td>
<td>0 – 5%</td>
</tr>
<tr>
<td>( \text{HCl} ) + ( \text{H}_2\text{O} )</td>
<td>0 – 3000 ppm</td>
<td>0 – 10%</td>
<td>0 – 5%</td>
</tr>
<tr>
<td>( \text{HF} )</td>
<td>0 – 100 ppm</td>
<td>0 – 100%</td>
<td>0 – 50%</td>
</tr>
<tr>
<td>( \text{CO (low)} )</td>
<td>0 – 500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{CO (high)} )</td>
<td>0 – 100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \text{O}_2 )</td>
<td>0 – 10%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Accuracy:**

\( \leq \pm 2\% \) of full scale

**Response time (0-90%):**

1s

**Linearity:**

\( \leq \pm 1\% \) of full scale

**Process gas (°C max):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Temperature 1</th>
<th>Temperature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{NH}_3 ) + ( \text{H}_2\text{O} ) / ( \text{HCl} ) + ( \text{H}_2\text{O} ) / ( \text{HF} )</td>
<td>+400°C</td>
<td>+1200°C</td>
</tr>
<tr>
<td>( \text{CO (low)} ) / ( \text{CO (high)} ) / ( \text{O}_2 )</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

**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

**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
- Weather protection covers
- Specific flanges (length / material / °C)
- Remote interface
- Audit cell (with tripod)
- Optical alignment tool

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