

# FDL-7 [NH<sub>3</sub>]

## Laser Ammonia Leak Detector

The FDL-7 [NH<sub>3</sub>] is the world's first remote detector designed specifically for ammonia. Simply point the laser towards the area you like to inspect and the instrument shows the concentration in parts per million/meter (ppm×m). An acoustical and optical alarm can be set to indicate an exceeded threshold. The ATEX Zone II certification allows the operation in explosion hazardous areas.

- Detects ammonia remotely up to distance of 20 m / 65 ft.
- Self-explanatory user interface
- Wide operating range from -17°C to +50°C / 1.4 F to 120 F



### Main applications

- Production and processing
- Transport and distribution
- Chemical industry

### Delivery content

- FDL-7 [NH<sub>3</sub>] device with 24-month warranty
- Transport & storage case
- Carrying strap, Charging station and Protective lens cap
- User manual

# FDL-7 [NH<sub>3</sub>] SPECIFICATION

<b>Measurement method</b>	Tunable diode laser absorption spectroscopic (TDLAS)
<b>Measurement range</b>	0 ~ 2.000 ppm - m
<b>Sensitivity</b>	10 ppm×m @ 0 – 10 m / 0 – 33 ft. 20 ppm×m @ 10 – 30 m / 33 – 98 ft.
<b>Response speed</b>	< 0.2 sec
<b>Detection distance</b>	0.5~20 m / 1.6 ft. ~ 66 ft.
<b>Beam size</b>	Approx. 17 cm @ 20 m distance / 6.7" @ 66 ft.
<b>Alarm</b>	Changing acoustic alarm depending on concentration
<b>Safety</b>	Detection laser: Class I
<b>Guide laser (green)</b>	Class IIIa
<b>Display</b>	2.8-inch color LCD (touch screen)
<b>Operating temperature</b>	-17°C to +50°C / 1.4 F to 120 F
<b>Humidity</b>	5 to 90 %RH
<b>Weight</b>	1.3 kg / 2.9 lbs.
<b>Dimension</b>	213×155×66 mm / 8.4 × 6.1 × 2.6 inches
<b>Power supply</b>	Rechargeable Li-ion battery
<b>Operation time</b>	up to 8 hrs.
<b>Battery charging</b>	5-6 hours for a complete charge
<b>Intrinsically safe</b>	ATEX II 2G Ex ib IIA T3
<b>Calibration gas</b>	Ammonia
<b>Protection class</b>	IP54
<b>Connections</b>	USB, earphone, DC jack, GPS, Bluetooth®
<b>Scope of delivery</b>	Earphone, carrying strap, transport case, charger, manual
<b>Warranty</b>	24 months



Your authorized distributor:

