

TDL 300 TUNABLE DIODE LASER



ICI's TDL 300 (Tunable Diode Laser) is an advanced handheld system which detects methane gas (CH₄) at distances of up to 100 meters at volumes of 0 ppm.m to 100,000 ppm.m. Methane leaks are located by pointing the laser beam towards the suspected leak, or along the survey line and examining reflected light density. Our TDL 300 detector is ideal for inspections of distribution pipelines, petrochemical industry refineries, chemical plants, metallurgical production lines, other places that may produce gas leakage.

Features

- Advanced tunable laser technology
- Detection distance up to 150 meters
- High sensitivity and quick response time
- Unmatched gas detection
- Visual and audible alarms
- Suitable for Multiple Industries
- Low Power Consumption
- Small size and light weight

Applications

- Methane detection
- Gas leak detection
- Handheld applications
- Pipeline inspections
- Industrial monitoring
- Petrochemical monitoring
- Scientific research
- Research & development

Specifications

- **Target Gas:** Methane (CH₄)
- **Sensitivity:** 5 ppm.m
- **Measurement Range:** 0 ppm.m to 100,000 ppm.m
- **Detection Distance:** 100 m
- **Response Time:** T90 < 0.05 seconds
- **Operation Range:** -20 °C to 50 °C (-4 °F to 122 °F)
- **Storage Range:** -20 °C to 60 °C (-4 °F to 140 °F)
- **Humidity:** 0 % ~ 99 % relative, non-condensing
- **Dimensions (without lens):**
220 mm x 80 mm x 90 mm (L x W x H ± 0.5 mm)
(8.66" x 3.15" x 3.54" (L x W x H ± 0.02"))
- **Power:** DC 3.7V
- **Operation Time:** 8 hours
- **Weight (with battery):** 600 kg (1.33 lbs)
- **Screen:** color LCD
- **Explosion-Proof Grade:** EX ib IIB T4 Gb
- **IP Rating:** IP66
- **Alarming Method:** visual and 85 dB @1m audible alarm
- **Laser:**
 - Detection: Class 1
 - Spotter: Class 3R
- **Unit Type:** ppm.m, LEL.m, and VOL.m

Options

- Telescope sight
- Bluetooth support



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