

TDL 220 TUNABLE DIODE LASER



ICI's TDL 220 (Tunable Diode Laser) is an advanced handheld system which detects methane gas (CH₄) at distances of up to 20 m (65.6 ft) at volumes of 0 ppm.m to 100,000 ppm.m. Traditional methane detection methods are costly, time consuming, places valued personnel in harms way, and impacts a company's bottom line. Adding the TDL 220 detector to predictive maintenance plans helps users quickly and safely identify methane gas leaks. It is ideal for inspections of distribution pipelines, petrochemical industrial refineries, chemical plants, metallurgical production lines, or other potential hazardous locations.

Features

- Advanced tunable laser technology
- Detection distance up to 20 m (65.6 ft)
- High sensitivity and fast response time
- Unmatched gas detection
- Visual and audible alarms
- Suitable for Multiple Industries
- Self-diagnostic notifications
- Low Power Consumption
- Small size and light weight

Specifications

- **Target Gas:** Methane (CH₄)
- **Sensitivity:** 5 ppm.m
- **Measurement Range:** 0 ppm.m to 100,000 ppm.m
- **Detection Distance:** 20 m (65.6 ft)
- **Response Time:** T90 < 0.1 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 90 mm x 90 mm (L x W x H ± 0.5 mm)
(8.66" x 3.54" x 3.54" (L x W x H ± 0.02"))
- **Power:** DC 3.7V
- **Battery:** Li-ion, rechargeable
- **Operation Time:** 10 hours
- **Weight (with battery):** 380 g (13.4 oz)
- **Screen:** color LCD
- **Explosion-Proof Grade:** EX ib IIB T4 Gb
- **IP Rating:** IP68
- **Alarming Method:** visual and audible
- **Laser:**
 - Detection: Class 1
 - Spotter: Class 3R
- **Unit Type:** ppm.m, LEL.m, and VOL.m
- Bluetooth support

Applications

- Methane detection
- Handheld applications
- Pipeline inspections
- Industrial monitoring
- Petrochemical monitoring
- Metallurgical production inspections
- Scientific research
- Research & development

Options

- Battery charger
- Wrist strap
- Lens cloth



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