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We are IR™

# ICI | TDLAS

ICI's Tunable Diode Laser Absorption Spectrometer (T.D.L.A.S.) is an innovative long-range detector which allows methane gas ( $\text{CH}_4$ ) to be detected at distances of up to 50 m at as little volume as 1 pmm.m. Methane leaks are located by pointing the laser beam towards the suspected leak, or along the survey line. Detects methane by emitting infrared light and examining reflected light density. Our T.D.L.A.S. system is ideal for use in industrial, commercial and research environments where it can be fixed mounted or attached to an aerial vehicle.



## Features

- Intrinsically Safe
- Ultra Low Power Consumption
- Detection distance up to 50m
- High Stability
- Fast Response

## Specifications

- **Target Gas:** Methane ( $\text{CH}_4$ )
- **Measurement Range:** 0 pmm.m to 40,000 pmm.m
- **Detection Distance:** 0.5 m (1.6') - 50 m (164')\*
- **Minimum Resolution:** 1 ppm.m
- **Response Time:** 0.5 seconds
- **Operation Range:** -20 °C to 50 °C
- **Storage Range:** -40 °C to 60 °C
- **Power Consumption:** 3.5 W Max.
- **Working Voltage:** DC 4.2V to 5V
- **Communication Port:** Uart 3.3 V TTL
- **Basic Tolerance:**  $\pm 10\%$  @ 1000 pmm.m
- USB 2.0 for Power & Data
- **Weight:** 664 g
- **Dimensions:** without lens  
92 x 92 x 116 mm (H x W x D  $\pm .5$  mm)
- **Operating Pressure:** 68 kPa - 115 kPa
- **Max Operating Humidity:** 98 %

## Applications

- Methane Detection
- Industrial
- Aerial
- Natural Gas
- Scientific Research
- Space Research & Exploration
- Research & Development
- Fixed Mount



\*Long Range version available but does not work from 0 m - 20 m (0" - 66').