ICI | T.D.L. 300

Hand held Laser Methane Detector

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We are IR™
ICI’s T.D.L. 300 (Tunable Diode Laser) is an innovative portable and hand held system which allows methane gas (CH₄) to be detected at distances of up to 25 m at a volume as small as 5 ppm.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. 300 detector is ideal for use in industrial, commercial and research environments where it can go anywhere an inspector can and beyond!

Features

- Unmatched Gas Detection
- Light Weight, Compact, & Portable
- Low Power Consumption
- High Stability
- Fast Response
- Suitable for Multiple Industries

Specifications

- **Target Gas**: Methane (CH₄)
- **Sensitivity**: Distance ≤ 10 m, Sensitivity: 5 ppm.m  
  Distance ≤ 25 m, Sensitivity: 10 ppm.m  
- **Measurement Range**: 0 ppm.m to 50,000 ppm.m  
- **Detection Distance**: 80 m  
- **Minimum Resolution**: 5 ppm.m  
- **Response Time**: T₉₀ < 0.05S  
- **Temperature**: -20 °C ~ 50 °C  
- **Humidity**: 0 % ~ 99 % RH (No Dews)  
- **Storage Temperature**: -20 °C ~ 60 °C  
- **Explosion-Proof**: Type Intrinsically Safe  
- **Explosion-Proof Grade**: EX ib IIB T4 Gb  
- **Ingress Protection**: IP54  
- **Weight**: 1.3 kg  
- **Voltage**: DC 3.7 V (LIC18650-22 3 Batteries)  
- **Display**: LCD Screen  
- **Operation Time**: 8 Continuous Hours  
- **Alarming Method**: Visual & Audible Alarm  
- **Alarm Threshold**: Adjustable  
- **Laser Safety**: Detection: Class 1, Spotter: Class 3R  
- **Battery Charger**  
- **Shoulder Strap**

Applications

- Methane Gas Leak Detection  
- Handheld Applications  
- Pipeline Inspections  
- Industrial Monitoring  
- Petrochemical Monitoring  
- Scientific Research  
- Research & Development

Software Options

- IR Flash Software  
- Windows 32-bit SDK  
- Linux SDK (x86, x64 and ARM)