

# Hydrogen Leak Detector

## EXTRIMA®



### HYDROGEN LEAK DETECTION IN EXPLOSIVE AREAS

**The new portable EXTRIMA Leak Detector** makes the revolutionary Hydrogen Method available for leak testing in the toughest of environments, including hazardous locations such as Zone 0. EXTRIMA is the ultimate, explosion proof tool for a wide range of demanding applications.

The intrinsically safe EXTRIMA Leak Detector brings the Adixen Sensistor accuracy, flexibility and simplicity into potentially explosive environments. It fulfills the requirements for use in Zone 0, classification Ex ia IIC T3 with ATEX, IECEx, CSA and NEPSI certificates.

**Versatile and easy to operate**  
EXTRIMA is designed to withstand rough handling in the field and is easily carried in a shoulder strap. It has a rechargeable Lithium Ion battery providing up to seven hours of operation. The new ergonomically designed hand probe with built in leak/no leak LED indicator, together with the auto-range function and short recovery time, allows for fast homing in on suspected leak areas and exact leak pin-pointing and quantification. The recommended tracer gas is a low cost standard mixture of 5% Hydrogen (H<sub>2</sub>) and 95% Nitrogen (N<sub>2</sub>) available from major gas suppliers. This mixture is non-flammable, non-corrosive, non-toxic and environmentally friendly.

**Comfortable solution for demanding applications**  
EXTRIMA is the ultimate choice for a wide range of industrial leak detection applications. For the first time ever the aviation industry has got a safe, accurate and yet comfortable solution for leak testing of complete fuel systems as well as Oxygen supply and fire extinguishing systems, both in production and maintenance.  
For the process industry, the petrochemical area, hydrogen production plants and on oil rigs EXTRIMA is the perfect tool for locating leaks on all types of valves, joints and other components. Leak testing of hydrogen cooled generators and fuel cells are other typical production and maintenance applications.

## Features

- Intrinsically safe – for leak detection in explosive environments
- Robust enclosure for tough environments
- Water proof (IP 67)
- Battery operated (7 hours autonomy)
- Simple user interface - easy to learn and operate
- High sensitivity, fast recovery
- Low maintenance
- Gas injection tools brings gas from bottle to leak in all situations

## Accessories

- Hand Probe with rigid neck
- Probe cable 5 m
- Antistatic Sensor Caps
- Injection Pads Small
- Injection Pads Large
- Injection Fix Kit
- Injection Panel
- Reference Leaks for calibration

### INJECTION PADS



### COMPLETE GAS INJECTION KIT



## TECHNICAL SPECIFICATIONS

**Ex-classifications:** Ex ia IIC T3

**Delivery:** Includes Detector, Probe Cable 3 m, Hand Probe with flexible neck, Shoulder Strap, Charger (100-240 VAC), Transport case, Antistatic sensor caps, User manual, Water protective tape

**Environment:** Temperature: 0° C - +50° C, Humidity: 95% RH (non-condensing),  
Chemical: JET-fuel and most common petroleum vapours, IP-Class: IP67, 30 min@1m (IEC 60529)\*

**Dimension/weight:** HxWxD: 128 mm x 240 mm x 167 mm, Weight: 4.5 kgs (hand probe excluded)

**Applications:** Zones 0, 1 and 2 (mines and dust excluded), (Hydrogen, JET-fuel, and other T1, T2 and T3 gases)

**Sensitivity:** Range in H<sub>2</sub> Analysis Mode 0.5 PPM - 0.2% H<sub>2</sub>  
Sensitivity in Leak Detection Mode 2x10<sup>-6</sup> cc/s (using 5% H<sub>2</sub> tracer gas)

**Repeatability:** Typically ± (10% of reading + 0.3 PPM)

**Linearity:** Typically ±15% (within 0.5 - 100 PPM)

**Battery capacity:** 7 hours (full charge)

\* Probe tip requires separate protection

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