

EXTRIMA[®]

Ex certified
Hydrogen Leak Detector



**THE ULTIMATE INSTRUMENT FOR
LEAK DETECTION IN EXPLOSIVE AREAS**

Mission accomplished! Finally, a fast, intrinsically safe leak detector

The portable **Extrima Ex certified Hydrogen Leak Detector** is the ultimate explosion proof instrument for leak testing in the toughest of environments, including hazardous locations such as **Zone 0 (corresponding to Division 1)**.

Extrima Leak Detector brings the Sensistor accuracy, flexibility and simplicity into a new range of demanding applications. It is certified for use in Zone 0, classification Ex ia, IIC T3 with ATEX, IECEx, NEPSI and CSA certificates.

VERSATILE AND EASY TO OPERATE

Extrima is designed to withstand rough handling in the field and has a shoulder strap for easy carrying. It has a chargeable Lithium Ion battery providing up to twelve hours of operation. The new ergonomically designed hand probe with a 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 pinpointing and quantification. The recommended tracer gas is a low cost standard forming gas (5% hydrogen and 95% nitrogen). It is non-flammable, non-corrosive, non-toxic and environmentally friendly.



FEATURES AT A GLANCE

- **Intrinsically safe**
Ex ia, IIC T3
- **Robust enclosure**
For demanding field use
- **Water proof** – IP 67
- **Battery operated**
12 hours autonomy
- **Simple user interface**
Easy to learn and operate
- **High sensitivity, fast recovery**
For efficient operation
- **Low and easy maintenance**
- **Sensor change in less than a minute**

ACCESSORIES

With a broad range of accessories, Extrima can easily be used in a multitude of situations.



INJECTION PANEL

Simplifies injection of tracer gas into Injection Pads or injection plugs. Includes gas regulator and pressure gauge, as well as reference leak for simple calibration of Extrima.

COMPLETE GAS INJECTION KIT

A complete set of accessories for simple tracer gas injection and leak detection in fuel tanks. Includes Injection Pads in two sizes, Injection Fix Kit and Injection Panel with its protective casing.



APPLICATIONS

Extrima is the ideal choice for a wide range of industrial leak detection applications.

PROCESS INDUSTRY

Extremely high demands on tightness are often made in the process industry. Pipe systems, valves and containers are just a few examples. In the context of both production and service, hydrogen leak detection provides a fast and reliable method for tightness control and leak detection.

- Leak detection with portable equipment
- High sensitivity
- Superior method to bubble testing

OFFSHORE

High demands on safety and harsh environmental conditions make Extrima the ideal instrument for leak detection on pipes, valves and containers, both in maintenance and assembly situations on oil rigs and refineries.

- Leak detection with portable equipment
- High sensitivity
- High reliability

AEROSPACE

With Extrima the aviation industry has a safe, accurate and yet simple solution for leak testing of complete fuel systems as well as oxygen supply and fire extinguishing systems, both in production and maintenance. Extensive tests have shown that using Extrima can reduce the average time by more than 50 % for identifying, locating and repairing a leak on a fighter jet during maintenance.

- Clean and dry test method
- Exact location of invisible leaks
- High sensitivity
- Inexpensive tracer gas
- Complete system for gas injection

POWER PRODUCTION

INFICON hydrogen leak detectors are the natural choice for leak testing on hydrogen-cooled generators and fuel cells. Thanks to its high sensitivity, Extrima can detect even minute leaks with pinpoint accuracy.

- High sensitivity
- Simple and accurate location of leaks
- Inexpensive tracer gas



INJECTION FIX KIT

Simplifies tracer gas injection on uneven surfaces. Includes plastic tubes, knife, injection plug, mylar film, adhesive and sealant.



ANTISTATIC SENSOR CAPS

Protects the sensor against liquids and particles.



CX21 PROBE CABLES

In lengths of 3 and 5 meters (9.8 and 16.4 ft.). Extends the measurement capabilities in narrow spaces.



HAND PROBE, WITH RIGID NECK

An option to the standard probe for exact leak location.



REFERENCE LEAKS

For calibration and function tests of the Extrima.



INJECTION PADS

For backtracing leaks in fuel tanks. Adheres well to flat surfaces. Small (60 mm / 2.3 in.) and Large (150 mm / 5.9 in.).

SPECIFICATIONS

Ex classification	Ex ia IIC T3
Environment	Temperature: -20 - +50°C (-4 - 120°F) Humidity: 95% RH (non-condensing) Chemical resistance: JET-fuel and most common petroleum products IP-Class: IP67, 30 min@1m (IEC 60529)*
Dimension/weight	HxWxD: 5.03 x 9.44 x 6.57 in. (128 x 240 x 167 mm) Weight: 10 lb. (4.5 kg) (hand probe excluded)
Applications	Zones 0, 1 and 2 / Division 1 and 2 (mines and dust excluded) (hydrogen, JET-fuel, and other T1, T2 and T3 gases)
Sensitivity	Range in H ₂ Analysis Mode 0.5 PPM - 0.2% H ₂ Sensitivity in Leak Detection Mode 1x10 ⁻⁷ cc/s (using 5% H ₂ tracer gas)
Battery capacity	Up to 12 hours (full charge)

* Probe tip requires separate protection

ORDERING INFORMATION

	Part no.
Extrima Ex certified Hydrogen Leak Detector complete with Detector, CX21 probe cable 3 m (9.8 ft.), PX57 Flex hand probe with flexible neck, shoulder strap, charger 100-240 V (ac), transport case, antistatic sensor caps, water protective tape	590-600
PX57 Hand Probe (rigid neck)	590-606
PX57 Flex Hand Probe (flexible neck)	590-607
Probe Cable CX21, 3 m (9.8 ft.)	590-260
Probe Cable CX21, 5 m (16.4 ft.)	590-265
Antistatic Sensor Caps (50-pack)	590-270
Injection Pads Small, 60 mm (2.3 in.) (10 pack)	590-615
Injection Pads Large, 150 mm (5.9 in.) (10 pack)	590-616
Injection Fix Kit	590-618
Injection Panel	590-619
Complete Gas Injection Kit	590-621
Sensor	590-292
Battery Charger	591-656
Reference Leaks	see separate data sheet



www.inficon.com reachus@inficon.com

Due to our continuing program of product improvements, specifications are subject to change without notice.
niba61e1-b (1209) ©2012 INFICON