



Extrima[®] Ex certified Hydrogen Leak Detector

Safety delivered



The fastest, intrinsically safe leak detector

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

The Extrima Leak Detector brings the unsurpassed accuracy, flexibility and simplicity into a new range of demanding applications. Certified for use in Zone 0, classification Ex ia, IIC T3 (with ATEX, IECEx, NEPSI and CSA certificates), it is the ideal choice for applications with extremely high demands for tightness and safety, such as:

- **Process Industry** — Extrima allows for fast pinpointing of leaks on pipe systems, valves, containers etc., in both production and service
- **Aerospace** — with Extrima, the aviation industry has a safe, accurate and yet simple solution for leak testing of complete fuel, cooling and oxygen supply systems. Extensive tests have



ADVANTAGES AT A GLANCE

- Intrinsically safe for use in hazardous areas (Ex ia, IIC T3)
- Robust enclosure for demanding field use
- High sensitivity and fast recovery allow for efficient operation
- Low and easy maintenance
- Portable, battery operated (more than 8 hours of use per charge)
- Sensor change in less than a minute
- Incorporates the proven Sensistor sensor technology developed for using forming gas (5% hydrogen in nitrogen) as tracer gas



Thanks to its small size, low weight and battery capacity, the Extrima can easily be used in confined space areas such as aircraft fuel tanks.

shown that using Extrima minimizes expensive downtime and reduces the average time by more than 50% for identifying, locating and repairing a leak on a fighter jet during maintenance

- **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
- **Power production** — thanks to its high sensitivity, Extrima can detect even minute leaks on hydrogen or liquid cooling systems, with pinpoint accuracy



BROAD RANGE OF ACCESSORIES TO ADAPT TO A MULTITUDE OF SITUATIONS

A complete set of tools which simplifies tracer gas injection, back streaming and locating leaks in fuel tanks:

- Injection Panel
- Injection Pads
- Injection Fix Kit
- Complete Gas Injection Kit
- Antistatic sensor caps



FAST HOMING IN ON SUSPECTED LEAK AREAS

High sensitivity, short recovery time and auto-range function allow for fast and accurate location and quantification of even minute leaks.

USES ENVIRONMENTALLY FRIENDLY TRACER GAS

Extrima uses an inexpensive standard forming gas (5% hydrogen in nitrogen) which is non-flammable, non-corrosive, non-toxic and does not damage the environment. This gas mixture is available from almost all gas suppliers. Leak detection with hydrogen tracer gas is a clean and dry test method.



ERGONOMIC HAND PROBE

The PX57 Flex Hand Probe is ergonomically designed and has a built-in leak/no leak indicator for exact leak pinpointing. The sensor, which can be easily protected against fluids, is placed at the probe tip allowing for easy replacement in less than a minute. The PX57 Hand Probe is available also with a rigid neck.

PORTABILITY INCREASES CAPABILITIES

Extrima has a shoulder strap and probe cables of 3 and 5 m (9.8 and 16.4 ft) which extend the detection possibilities in narrow spaces.

SPECIFICATIONS

Ex classification	Ex ia IIC T3
Minimum detectable leak rate	Range in H ₂ Analysis Mode 0.5 PPM – 0.2% H ₂ Sensitivity in Leak Detection Mode 5x10 ⁻⁷ cc/s (using 5% H ₂ tracer gas)
Ambient temperature range	-20 – +50°C (-4 – +120°F)
Humidity	95% RH (non-condensing)
Chemical resistance	JET-fuel, Skydrol® and most common petroleum products
IP-Class	IP-Class: IP67, 30 min @ 1m (IEC 60529)*
Dimension (HxWxD)	128 x 240 x 167 mm (5.03 x 9.44 x 6.57 in.)
Weight	4.5 kg (10 lb.) (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)
Battery capacity	> 8 hours (full charge)

*Probe tip requires separate protection

ORDERING INFORMATION

PRODUCT	CATALOG NUMBER
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
ACCESSORIES	
PX57 Hand Probe (rigid neck)	590-606
PX57 Flex Hand Probe (flexible neck)	590-607
CX21 Probe cables	
3 m (9.8 ft.)	590-260
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
Battery Charger	590-656
Test Leaks	see separate data sheet
SPARE PARTS	
Sensor	590-292



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Due to our continuing program of product improvements, specifications are subject to change without notice.
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