

## Trace 101 – Hydrogen Tracer Gas Detector



### BENEFITS

- Explosive Atmosphere proof
- Quick, easy and accurate leak detection
- High sensitivity ( $1 \times 10^{-6}$  std.cc/ sec)
- Unique sensor selectivity
- Rugged instrument
- User friendly and easy to maintain
- Compact and light portable
- Easy to transport to remote locations

The **Trace101** is a hydrogen tracer gas detector, approved for **ATEX** Div. 1 or zone 0 operation.

The portable Trace101 Leak Detector makes the revolutionary Hydrogen Method available for leak testing in the toughest of environments, including explosion hazardous areas. Finding leaks down to bacteria size, Trace101 is the ultimate tool for a wide range of demanding applications.

The intrinsically safe Trace101 leak Detector brings accuracy, flexibility and simplicity into potentially explosive environments. It meets the ATEX directive for use in Div 1 or zone 0-ATEX Classification Ex ia, IIC T4.

Versatile and easy to operate, the Trace101 is designed to withstand rough handling in the field and is easily carried. It has a chargeable Ni-MH battery providing up to four hours of operation.

The new ergonomically designed hand probe allows for fast homing in on suspected leak areas and exact leak locating 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-toxic and environmentally friendly.

Simple solution for demanding applications  
Trace101 is the ultimate choice for a wide range of industrial leak detection applications. For the first time ever, the industry has got a safe, accurate and yet simple solution for leak testing of the complete industry, the **petrochemical area, hydrogen production plants** and on **oil rigs**.

The Trace101 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 typical production and maintenance applications.

## Trace101 - Specifications

Lowest detectable hydrogen concentration:	1ppm (parts per million)
Lowest detectable leak rate:	1x10 <sup>-6</sup> std cc/sec
With standard gas mixture of 5% H2 and 95% N2	
Response time:	1 second
Warm up time including self-check:	1 minute (approx)
Battery unit:	Sealed rechargeable battery
Battery runtime:	4 hours
Battery charger*:	115-230Vac-50-60Hz   12Vdc
*The battery must not be charged in explosive area	
Field calibration and alarm setpoint Verify to NIST standard cal. leak	




### Operating conditions:

Temperature:	+0°C (32°F) to +50°C (122°F)
Relative humidity:	90 % maximum
Weight (with battery):	600grs (1.32lbs)
Size:	235x118x45mm (9.2"x4.6"x1.8")

### Trace101 Certification:

CSA: Ex i-Class 1 Div 1 Group C-T4 Vmax=7.5V  
 Installation drawing: DP 100 01 02 01 01 00  
 SunAero Manufacturer

**Europe:** INERIS 08 ATEX 0039  II 1 G Ex ia IIC T4 Ga  
 Tamb: 0°C to + 50°C Zone 0 Catégorie 1  
 According NF EN 60079-0 2009 and NF EN 60079-11 2012

This content is subject to change at any time without notice.

## Ordering Information

### P/N : Equipment

<b>TRACE 101</b>	<b>Hydrogen Leak Detector</b> (ATEX certified Div1 or Zone 0) Trace101 unit with Battery charger, Probe (P/N: PH-101 ), connection cable), transport Pelicase box and Calibration certificate
------------------	---

### P/N Probes and accessories

<b>PH101</b>	Hydrogen probe for Trace 101
<b>FB50-100</b>	Set of 50 filters oil and dusty protection
<b>NS4-100</b>	Set of 4 Probe Heads for trace 101 (ATEX Certified)
<b>EXT 5MA</b>	5 meters extension Stick ATEX Certified

