

## Trace 400 – Helium Tracer Gas Detector



### BENEFITS

- Compact & light weight.
- Quick, easy and accurate leak detection.
- High sensitivity ( $5 \times 10^{-6}$  std.cc /sec).
- Rugged instrument,
- User friendly and easy to maintain.
- Protection against over-exposition.
- Visual and audio indicators.
- Portable battery powered kit.
- Easy to transport to remote locations.

### The most compact and simple leak detector using helium tracer gas

The Trace400 is a portable, compact helium leak detector that can run on its own battery for up to four hours. Weighing only 2.6 kg (5.7 lbs) including the battery, it can be taken everywhere. Controlled by a microprocessor, it is easy to use. All tuning and zeroing are handled automatically.

The Trace 400 is designed to specifically meet the industrial requirements of leak detection applications. It can detect very small leaks by applying a slight helium/air pressure inside the object. It is sensitive to helium concentrations as small as 2 parts per million.

### A state-of-the-art helium detector.

The trace400 using the proprietary and patented Selective Ion Pump Detection (SIPD) method. The SIPD sensor incorporates a quartz capillary tube maintained under high vacuum by an ion pump. The quartz tube is heated with a platinum filament and becomes permeable to helium. As the partial pressure of helium in the ion pump increases, so does the current drawn by the ion pump (proportional to the pressure). The onboard processor converts the current draw to the corresponding helium concentration present in the Trace400 test probe.

The trace 400 detector offers high performance combined with a low cost of ownership, providing an effective upgrade from pressure decay, blow back and ultrasound leak detection methods.

## Trace400 - Specifications

Lowest detectable helium concentration:	2ppm (parties par million)
Lowest detectable leak rate:	5x10 <sup>-6</sup> mbarl/s
Response time:	2 seconds
Warm up time including self-check up:	3 minute (approx).
Battery unit:	Sealed and rechargeable
Autonomy :	4 hours
Power requirement :	110/220 Vac.

### Operating conditions :

Temperature :	+5°C (41°F) to +35°C (95°F)
Relative humidity :	90 % maximum
Weight (with battery):	2.6 kg (5.7 lbs)
Size :	290 x 170 x 130 mm

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

## Ordering information

### P/N : Equipment

<b>TRACE 400-CP</b>	<b>Helium Leak Detector / Complete package:</b> This set including : The helium detector equipped with a battery Standard Battery charger Helium probe ( with a standard 60 cm length sniffer probe cable ) A set of 3 probe noses. Carrying Straps An extension stick, transport case Calibration certificate with 1 year validity Technical e-Documentation
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### P/N Probes and accessories

<b>PH400</b>	Exchange Helium probe Trace 400
<b>CA400</b>	Stick extension
<b>HP400A</b>	Protective bag
<b>BA400</b>	SPARE Ni-MH BATTERY for Trace400
<b>FC400</b>	CAPILLARY LEAK
<b>CHE400</b>	External Charger (allow to charge spare battery externally)
<b>CHB400</b>	Set of external charger and spare battery