SINCE 1935

TG EXPERT

GAS LEAK DETCETOR "ALL GASES" : HELIUM, ARGON, HYDROGEN...

DATASHEET

Gas leaks detection for tightness control, by sniffing, at atmospheric pressure.

- Thermal conductivity cell
- Leak detection light bargraph
- Compact and robust housing

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YOU HAVE A JOB TO DO,
WE HAVE THE RIGHT TOOLS

Application

The TG EXPERT is used for tightness control applications; especially for the detection of Helium or Argon. «ALL GASES» portable leak detector, for universal use.

Conception

Designed for expertise and industrial use; wear parts (sniffer pipe, cable and detection block) are directly interchangeable for easy maintenance.

Maintenance

Maintenance and supply of spare parts are provided directly by the manufacturer SAPRE.

Light baragraph
Progressive light baragraph indicating the estimate of the leakage value according to the sensitivity setting.

Gas selector
Gas type selection button [He] / [Ar].

Sensitivity selector
3 sensitivity positions: HI, MED and LO.

Audible signal
Progressive sound signal according to the level of leak detected.

Detection block
Detection block including the thermally conductive cell and the suction system.

Flexible pipe
Calibrated flexible pipe easily replaceable with protective tip.

Optional: Stainless steel capillary pipe
Stainless steel capillary tube with an outer diameter of 3 mm.
Standard length of 7 cm,
other lengths available.

Specifications

Housing	Shockproof plastic case, Height 17 cm, Width 8 cm, Depth 4 cm, Weight 0.300 kg
Power supply	Build-in rechargeable batteries, Autonomy 6-8h. Full recharge approx. 12 hrs.
Uses	For expertise or production. Optimal performance between 10 and 40 °c. Non Explosion Proof Detector. Never use in a hazardous or explosive atmosphere.
Detection bloc	Detection block with suction for quick response time and degassing. Unsaturable thermal conductivity cell. Interchangeable calibrated flexible pipe with protective tip.
Cable	Spiral probe cable, length 1 meter relaxed.
Warming-up	Cell heating time: 60 seconds approx.
Response time	1 second approx.
Sensitivity	• Helium: value min. 1.10-5 cc/s, value max. 1.10-2 cc/s • Hydrogen: value min. 1.10-5 cc/s, value max. 1.10-2 cc/s • Argon: value min. 5.10-5 cc/s, value max. 4.10-2 cc/s • CO2: value min. 4.10-5 cc/s, value max. 3.10-2 cc/s • SF6: value min. 4.10-5 cc/s, value max. 3.10-2 cc/s • Methane: value min. 4.10-5 cc/s, value max. 3.10-2 cc/s • Refrigerants gases: value min. 3.10-5 cc/s, value max. 2.10-2 cc/s • Oxygen: value min. 5.10-3 cc/s • Nitrogen: value min. 5.10-2 cc/s • other gases, contact us
Calibration	3 preset sensitivity positions: HI, MED, LO. • [He] Position, with 100% light baragraph : HI > 5 10-5 cc/s, MED > 1 10-4 cc/s, LO > 1 10-3 cc/s. • [Ar] Position, with 100% light baragraph : HI > 3 10-4 cc/s, MED > 5 10-4 cc/s, LO > 5 10-3 cc/s.
Zeroing	Automatic zeroing on the ambient atmosphere.
Display	Progressive light baragraph : 0 - 100% of the sensitivity position, with audible signal.
Warning lights	Self-checking indicator light: Cell error, Battery level (low, very low, exhausted). Battery recharge indicator light.
Carrying case	Detector supplied complete in transport case with mains charger and user manual.

For more information on our products, applications and services, contact our sales department.

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in order to follow the technological evolution, SAPRE reserves the right to modify its models without notice - TG EXPERT v3.06.2025