

SF6 LeakCheck P1:P

Fast, accurate detection of low level SF6 leaks.



APPLICATIONS

- SF6 leak testing and measurement in high voltage switchgear (GIS)
- Breathing apparatus testing
- Medical device testing
- Leak integrity testing on medical, refrigeration and air conditioning equipment containing SF6 and (H)CFCs



The SF6 LeakCheck P1:p is an award winning SF6 leak detector ensuring fast accurate detection at ultra sensitive levels.

SF6 LeakCheck P1:p is a revolution in SF6 leak detection, ensuring incredibly fast searching at ultra sensitive levels. Even the smallest of leaks can be detected and located swiftly with a minimum detection level of 1×10^{-7} ml/sec or optional 1×10^{-8} ml/sec, equivalent to a grain of rice per year!

Designed for SF6 gas leak testing and measurement in high voltage electrical SF6 switchgear, the instrument also detects other gases with a high affinity for electrons, such as refrigerant R12.

A unique advantage of the instrument is that it is unaffected by exposure to large leaks. Even after saturation or exposure to leaks of 100%, clear down remains rapid (<1s). The SF6 gas leak detector also benefits from having a non-radioactive source, eliminating registration, storage and transportation issues found with traditional radioactive ECD SF6 gas leak detectors.

Additional features of the SF6 gas leak detector include datalogging, alarms; both audio and visual, and a robust portable case. The instrument requires no consumables, such as Argon, reducing the ongoing costs of operation. There are no items requiring maintenance or service in the handgun or console.

The P1:p SF6 gas leak detector meets the demands for quality and traceability to international standards as required by today's industry. It is designed for the location, leak testing and measurement

Best available SF6 leak detection

- Ultra high sensitivity with a 1×10^{-8} ml/sec*
- Award winning Negative Ion Capture (NIC) technology
- Unaffected by large leaks and 100% SF6 meaning no frustrating delays between searches
- Choice of display units cc/sec, gm/yr and ppm for monitoring conformance to leak minimisation targets

Ease of use

- Non radioactive source for easy storage and transportation
- No training required - switch on and go
- Lightweight, ergonomically designed handgun
- Touch screen for easy navigation menus
- Simple data storage and printing for analysis

Low cost

- No argon or other pressurised gases required for reduced cost of ownership
- 2 year warranty when instrument registered online

*Highsense option

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TECHNICAL SPECIFICATION

MEASUREMENT PRINCIPLE:

Negative Ion Capture (NIC): a non radioactive, non restricting carriage and no licensing required.

SENSITIVITY:

Standard SF₆ GasCheck P1 and LeakCheck P1:p

1 x 10⁻⁷ ml/sec, 1ppm, 0.01gm/yr SF₆

Highsense option

1 x 10⁻⁸ ml/sec, 0.1ppm, 0.001gm/yr SF₆

RESPONSE:

T90 = < 1 second rise and clear down

OPERATION:

Lead acid battery, internal and fully protected

Recharge between 85-265 AC V, 50/60Hz

ALARM:

Audio and visual with an optional handset alarm

MEASUREMENT UNITS:

Measures in ml/sec, gm/yr and ppm

Range: each unit 1:500

Accuracy: ±5% of displayed leak rate or ± 2 digits

Repeatability: ±1 digit

CALIBRATION:

Via CalCheck calibration accessory

DATALOGGING:

Over 500 data points with date and time stamp

Download via RS232 to a PC

TEMPERATURE:

Storage: -10 to 60°C (14 to 140°F)

Operating: 0 to 50°C (32 to 122°F)

DIMENSIONS:

Consol: 500 x 400 x 190 mm (19.7 x 15.7 x 7.5")

Shipped: 520 x 430 x 210 mm (20.5 x 16.9 x 8.3")

WEIGHT:

Shipped 15 kg (33lb)

Part Number:

72-7400

Included:

- SF₆ LeakChecker P1:p*
- P1 Consol
- P1 Hand Gun
- 3 x Spare Probes
- Charger Cable (Mains)
- Certificate
- Robust Peli Case

*Instrument built-in to case for maximum portability



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