

A black and silver SF6 P1:P SF6 Leak Detector is shown in its open carrying case, floating in the air. The case is open, revealing the detector's control panel with a screen and buttons, and a long, flexible sampling probe. The background is a power substation with high-voltage equipment and power lines under a clear blue sky.

SF6 P1:P

SF6 LEAK DETECTOR

FAST, ACCURATE DETECTION OF LOW
LEVEL SF6 LEAKS.

ionscience.com

Unrivaled Gas Detection.





THE SF6 LEAKCHECK P1:P IS
AN AWARD WINNING SF6 LEAK
DETECTOR ENSURING FAST ACCURATE
DETECTION AT ULTRA SENSITIVE LEVELS.

Best available SF6 leak detection

- Ultra high sensitivity with a 1×10^{-8} ml/sec*
- Award winning Negative Ion Capture (NIC) technology
- 1 second rise and clear down for rapid leak detection
- 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 minimization 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 pressurized gases required for reduced cost of ownership
- 2 year warranty when instrument registered online

*Highsense option



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 data-logging, 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 of SF6 leaks in high voltage electrical switchgear.

The instrument's award winning Negative Ion Capture (NIC) technology with non-radioactive source eliminates problems of registration, storage and transportation.

Extend your instrument warranty

Your SF6 P1:p instrument warranty may be extended by simply registering your product on the Ion Science website within one month of purchase. Visit www.ionscience.com/instrument-registration to take advantage of this offer.

Applications include

- 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



Technical specifications

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
- 1×10^{-7} ml/sec, 1 ppm, 0.01 gm/yr SF6
- Highsense option
- 1×10^{-8} ml/sec, 0.1 ppm, 0.001 gm/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: $\pm 5\%$ of displayed leak rate or ± 2 digits
- Repeatability: ± 1 digit

CALIBRATION

- Via CalCheck calibration accessory

DATA LOGGING

- 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

- SF6 LeakCheck P1:p
- 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

- SF6 LeakCheck P1:p
- Shipped 15 kg (33 lb)

SF6 P1:p V1.6. This publication is not intended to form the basis of a contract and specifications can change without notice.

Accessories

Your SF6 P1:p is supplied with an exclusive range of accessories. Visit www.ionscience.com/sf6 for more info.

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