PANTHER



The Panther offers rapid and sensitive detection of a wide range of gases, including Helium, Hydrogen, Argon and Refrigerants

Introduction

Drawing on over 30 years of experience in leak detection, the Panther builds on the proven success of its predecessor, the GasCheck series. Designed for locating gas leaks, the Panther fits naturally in the hand for comfortable use, with simple operation and effortless zeroing.

The Panther Gas Leak Detector utilises a micro thermal conductivity sensor which offers fast and sensitive detection for many gases. The internal piezo pump offers extremely stable sample flow and makes it highly stable in draughty environments. The Panther has also demonstrated its relative immunity in high electro-magnetic field environments.

The Panther makes leak detection simple. The probe can be used to scan the area being checked and quickly pinpoint the source of a leak. The detected leak level can then be viewed in a choice of measurement units.

For applications where the leak-rate requires to be logged, the Panther offers 10 days of continuous logging.

Key Features

- **Internal Gas Table**
  With a large range of gases e.g. Helium, Hydrogen, Argon and Refrigerants.
- **Datalogging***
  View and export Panther data into Excel, CSV. file or PNG image.
- **Integrated Torch**
  Used for dimly lit or dark areas.
- **IP44 Ingress Protection**
  Splashproof protection.
- **Long Rechargeable Battery Life**
  When fully charged, the lithium-ion battery can last up to 20 hours.
- **Bluetooth* & ION PC Software**
  Connect to ION PC via Bluetooth or USB and configure a wide range of instrument settings.

*Only available on Panther PRO.



Panther Features



- Removable nozzle probe cover to protect the capillary probe.
- An integrated torch designed for dimly lit areas
- Flashing LED indicators for leak detection
- Coloured LCD display, easy viewing in any condition
- User selectable measurement units (ml/sec, cc/sec, g/yr, ppm, mg/m³, %Vol)
- Increasing vibration helps pinpoint leaks
- Internal library of gases
- Robust design capable of withstanding harsh environments
- Loud audible sounder
- Universal USB C connector port
- Large clear keypad designed for one handed operation
- Highly resistant to magnetic fields
- Li-ion battery life of up to 20 hours

Detecting Leaks

Draw the probe along the area to be tested at approximately 25 mm per second.* When a leak is detected, retrace the route at a slower rate until the leak is located. Once the leak is located, hold the instrument over the leak until the measurement stabilises.

Extended Warranty

The Panther can be registered online which extends warranty to up to 2 years. Register your instrument online within one month of purchase to extend the warranty.

ION PC

ION PC provides the user with the option to create and load new calibrations and download, view and compare datalog sessions. Datalog sessions can be exported as data and graphs in CSV, Excel or PNG formats.. Users can also search through the internal gas table and select the measurement gas of interest. ION PC allows authorised users to set their preferred settings such as measurement units, audible, visual and vibration settings.

*Remove the probe cover before use.

Pioneering Gas Sensing Technology. ionscience.com

Key Industries

- Hydrogen production, storage and distribution
- HVAC and refrigeration
- Medical equipment and healthcare engineering
- Manufacturing and quality control
- Semiconductor, electronics and cleanroom facilities



Key Applications

- Leak Detection & Repair
- Product Verification
- MRI Scanner Maintenance
- Maintenance & Inspection
- Occupational Health & Safety





What's in the Box? (Panther Standard)

- Documentation (warranty card, quick start guide, calibration certificate)
- Box spanner
- USB cable
- Mains plug with EU, UK, US and Aus adaptors
- Carry case
- Panther unit

What's in the Box? (Panther PRO)

- Documentation (warranty card, quick start guide, calibration certificate)
- Box spanner
- USB cable
- Mains plug with EU, UK, US and Aus adaptors
- Carry case
- Panther unit
- Flexible probe (200 mm)
- Short capillary probe
- Bluetooth dongle

Spares & Accessories



Panther Nozzle

Replacement sampling nozzle for the Panther gas leak detector.

P/N 907209-RWK



Panther Flexible Probe (200mm)

Replacement sampling probe for the Panther.

P/N A-907227



Panther Standard Capillary Probe

Replacement sampling probe for the Panther.

P/N A-907228



Panther Helium CalCheck

Portable helium reference source for checking Panther detector response.

P/N A-907306



Panther SF6 CalCheck

Portable SF6 reference source for checking Panther detector response.

P/N A-907307



Panther CalCheck 5% Hydrogen / 95% Nitrogen

Portable reference source for checking Panther response to a 5% hydrogen and 95% nitrogen gas mixture.

P/N A-907308

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Technical Specifications

Detector	Micro Thermal Conductivity Detector (MTCD)
Battery type	Rechargeable Li-ion battery
Battery life	20 hours
Audible alarm	≥90 dB @ 10 cm
Factory calibration	At 50% relative humidity (room temperature): 5000 ppm Helium (±5%) Leak: 0.0005 cc/sec (±5%)
Data logging	10 days continuous
Sensitivity (cc/s)	Helium: 5×10^{-6} Please refer to the Panther Sensitivity chart for details of minimum sensitivity for other gases.
Response	T90: 1 second
Flow rate	2 cc/min
Ingress protection	IP44
Temperature	Operating: 0° C to 50 °C
Humidity	0 to 99% RH
Weight & dimensions	447 g (approx.) 320 x 80 x 55 mm (approx.)

This publication is not intended to form the basis of a contract and specification can change without notice.

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