



# PANTHER

Pioneering Gas Sensing Technology.  
[ionscience.com/usa](http://ionscience.com/usa)





# Panther

The Panther offers rapid and sensitive detection of a wide range of gases, including helium, refrigerants and hydrogen



## Introduction

With over 30 years of experience in the leak detection industry, the Panther follows on from the success of its predecessor, the GasCheck series. Designed for the search and location of gas leaks, the Panther feels natural to hold in the hand during use while frequent operational requirements such as zeroing are effortless.

The Panther Gas Leak Detector utilizes 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 drafty environments. The Panther has also demonstrated its relative immunity in high electro-magnetic field environments.

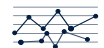
Using the Panther couldn't be easier. Simply draw the probe along the area that needs checking, then once the leak has been 'pin-pointed', the leak-rate can be quantified from a variety of measurement units. For applications where the leak-rate requires to be logged, the Panther offers 10 days of continuous logging.

## Key Features

>> **Internal Gas Table**  
With a large range of gases like helium, hydrogen and refrigerants.



>> **Datalogging\***  
View and export Panther data into Excel, CSV file or PNG image.



>> **Integrated Flashlight**  
Used for dimly lit or dark areas.



>> **IP44 Ingress Protection**  
Splash-proof 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 and configure a wide range of instrument settings.



\*Only available on Panther PRO

## Panther Features



### Detecting Leaks

Simply draw the instrument along the area that requires testing at approximately 2.5cm 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 stabilizes.

### 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 a graph to either CSV file, Excel or PNG. Users can also search through the internal gas table and select the measurement gas of interest. ION PC allows authorized users to set their preferred settings such as measurement units, display reading, audible, visual, and vibration alarm settings.

### 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](#).



# Technical Specifications

## Detector

- Micro-thermal conductivity detector (MTCDD)
- Sensor is poison resistant with over range protection

## Battery Type

- Rechargeable Li-ion battery

## Battery Life

- 20 hours

## Audible Alarm

- $\geq 90$  dB @ 10 cm

## Factory Calibration

At 50 % relative humidity (room temperature):

- 5000 ppm Helium ( $\pm 5\%$ )
- Leak: 0.0005 cc/sec ( $\pm 5\%$ )

## Data logging

- 10 days continuous

## Sensitivity (cc/s)

- Helium:  $5 \times 10^{-6}$
- Hydrogen:  $3.8 \times 10^{-6}$

## Response

- T90: 1 second

## Flow Rate

- 2 cc/s

## Ingress Protection

- IP44

## Temperature

- Operating: 32°F to 122°F

## Humidity

- 0 - 99% R.H

## Weight & Dimension

- 1 lb (approx.)
- 12.6 x 3.1 x 2.2 cm (approx.)

## What's in the box? (Panther Standard)

- Panther Instrument
- Box Spanner
- USB Cable
- USB Mains Adaptor
- Warranty Registration Card
- Quick Start Guide

## What's in the box? (Panther PRO)

- Panther Instrument
- Box Spanner
- USB Cable
- USB Mains Adaptor
- Warranty Registration Card
- Quick Start Guide
- Flexible Probe 20cm
- Bluetooth Dongle

Panther V1.0. This publication is not intended to form the basis of a contract and specifications can change without notice.

## Manufactured by:

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