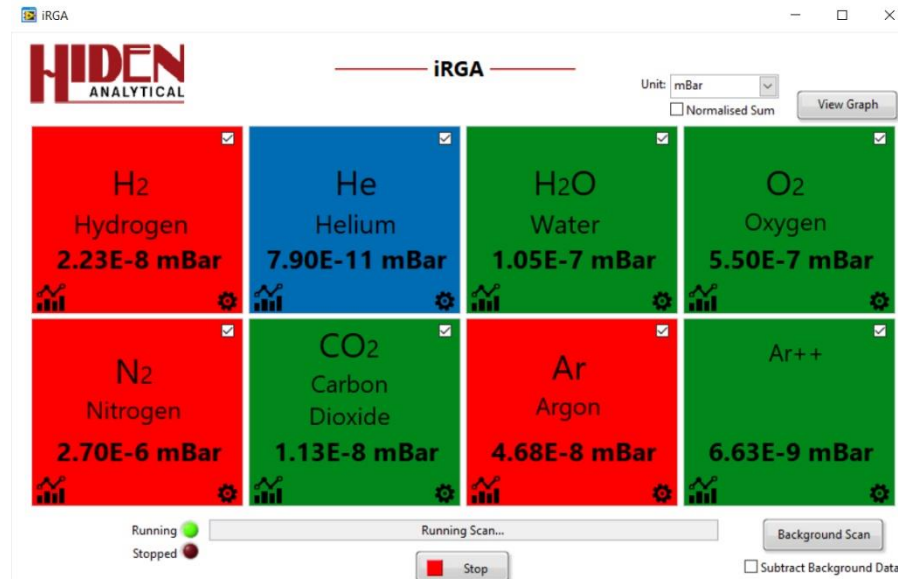


# iRGA

Intuitive RGA monitor

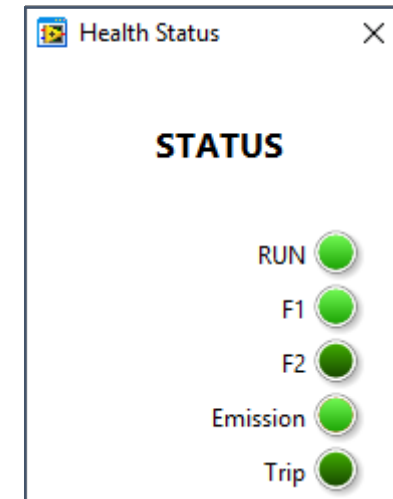
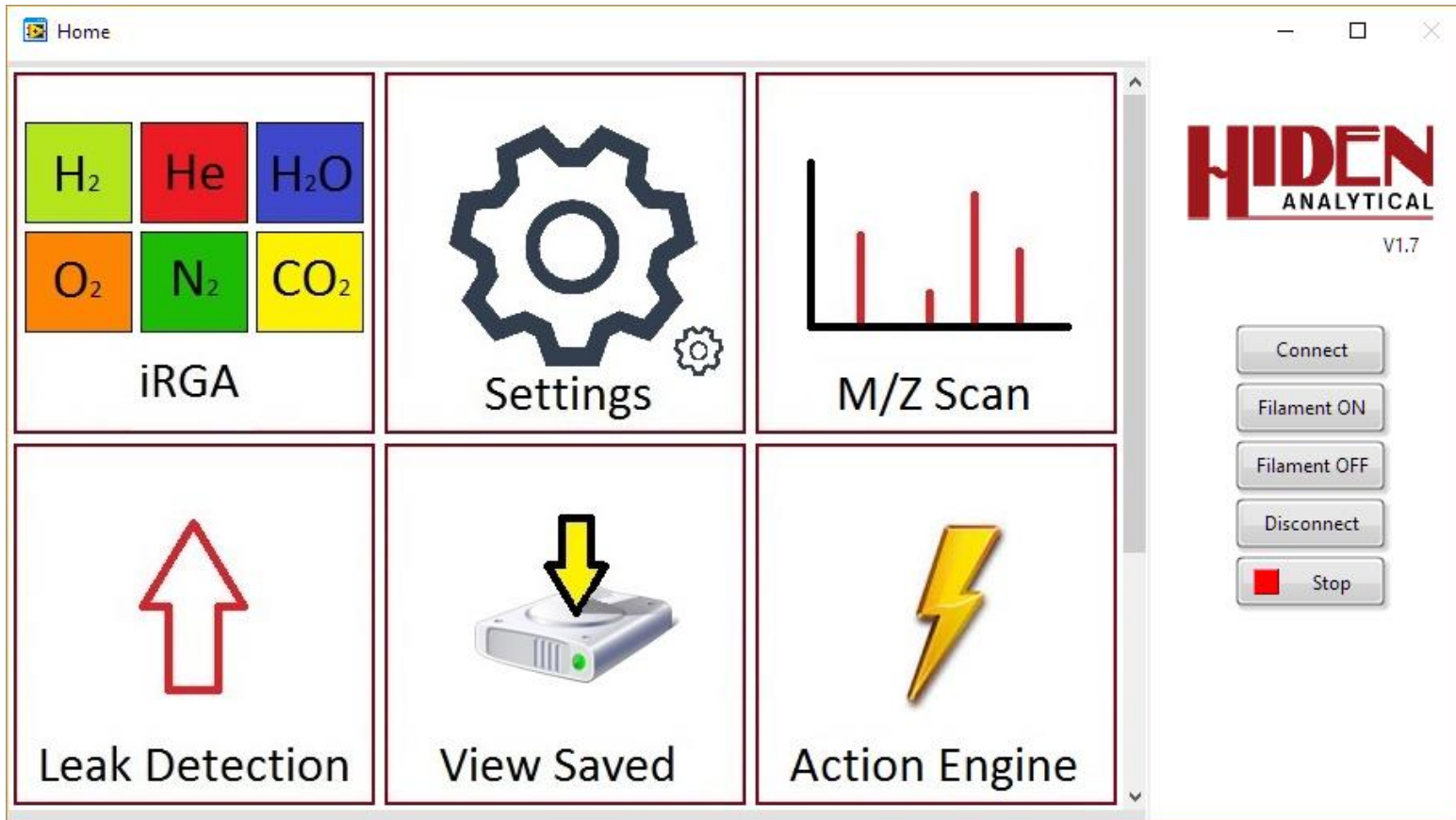
The simple way to keep an eye on your vacuum



# iRGA Introduction

- iRGA is a new application is for routine vacuum monitoring
- iRGA is designed to be simple and automatic:
  - automatically provides partial pressure data for the common residual gas and vapours, including hydrogen, helium, water, nitrogen, oxygen, argon and a custom gas.
  - includes a new tablet view where the background colour changes depending on alarm condition
  - includes a trend view, scan, leak detection and maintenance modes.
- iRGA includes alarm function to send alerts to internal I/O, Wi-Fi and by email

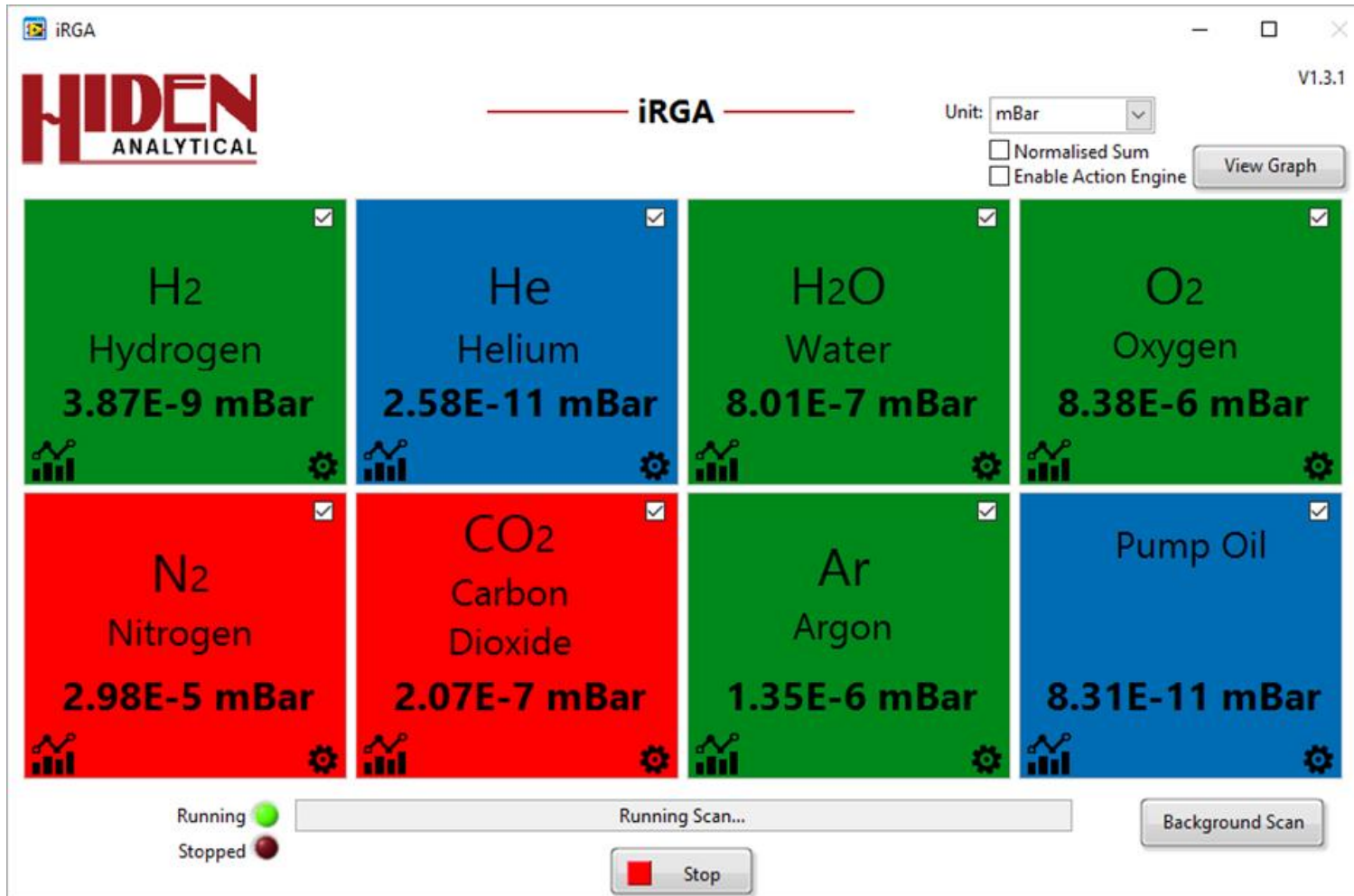
# iRGA - select the mode from the tablet



Connection is by USB, or Ethernet. Filaments and SEM detector are doubly protected with internal and external over pressure protection.

**Once connected with filament on - Select iRGA and the RGA data monitor automatically starts**

## iRGA tablet mode

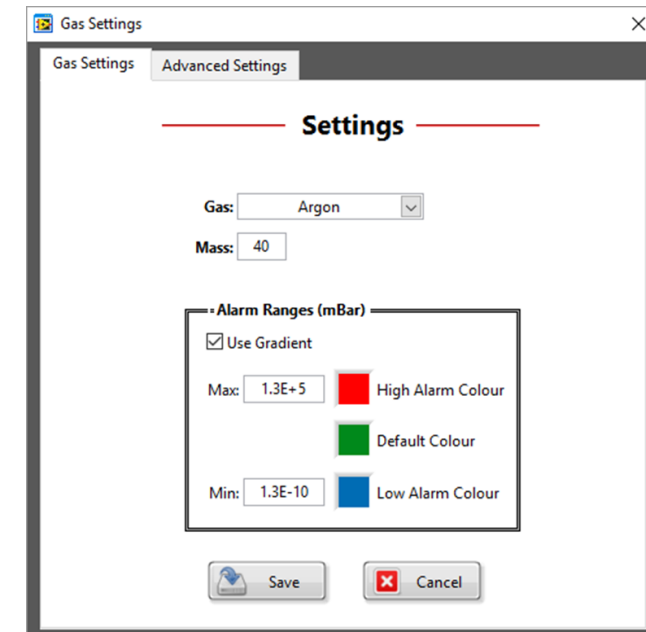


The common residual gas and vapour Species are monitored together with a colour palette to indicate status:

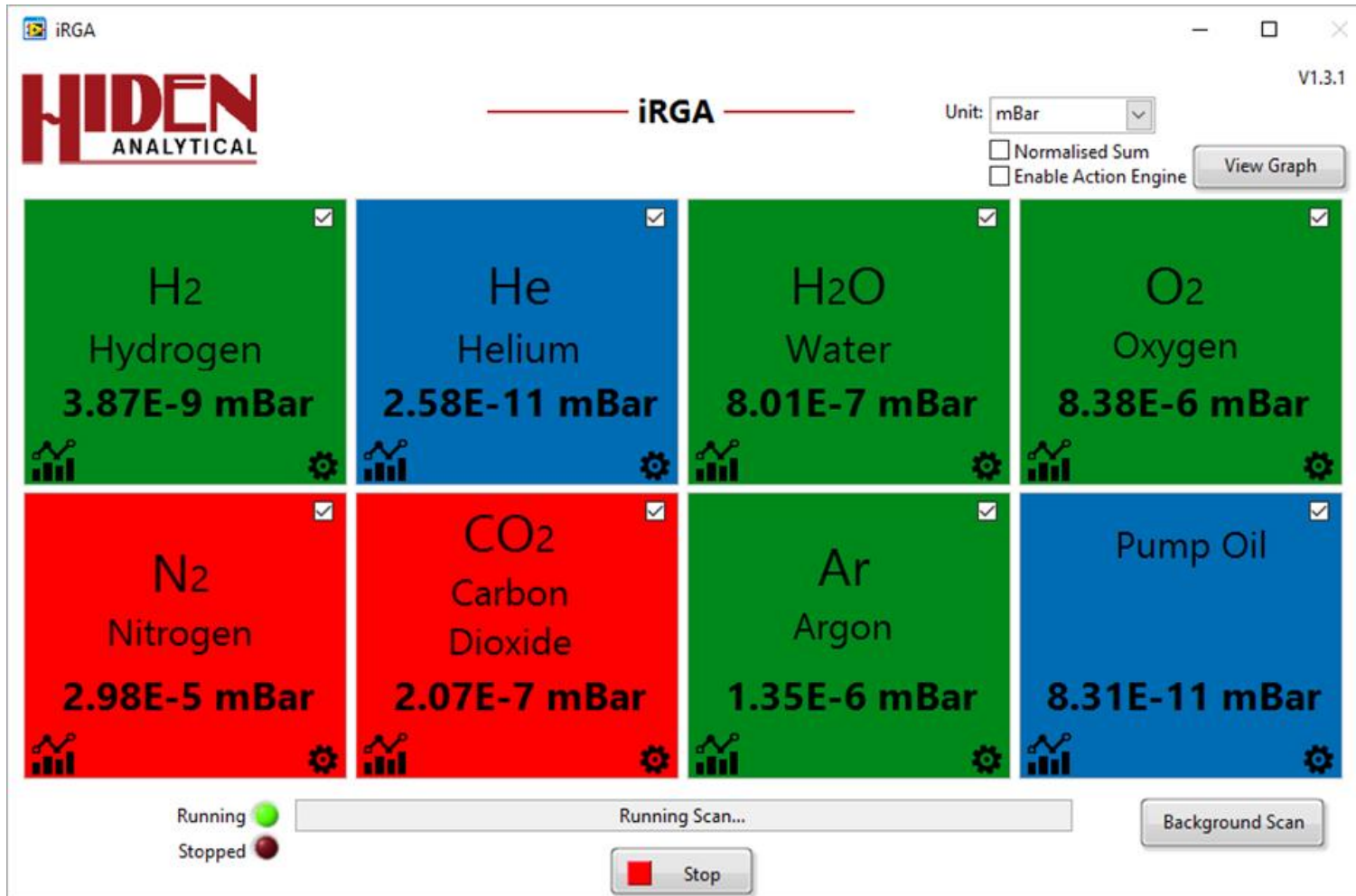
Blue = Low

Green = Normal

Red = High



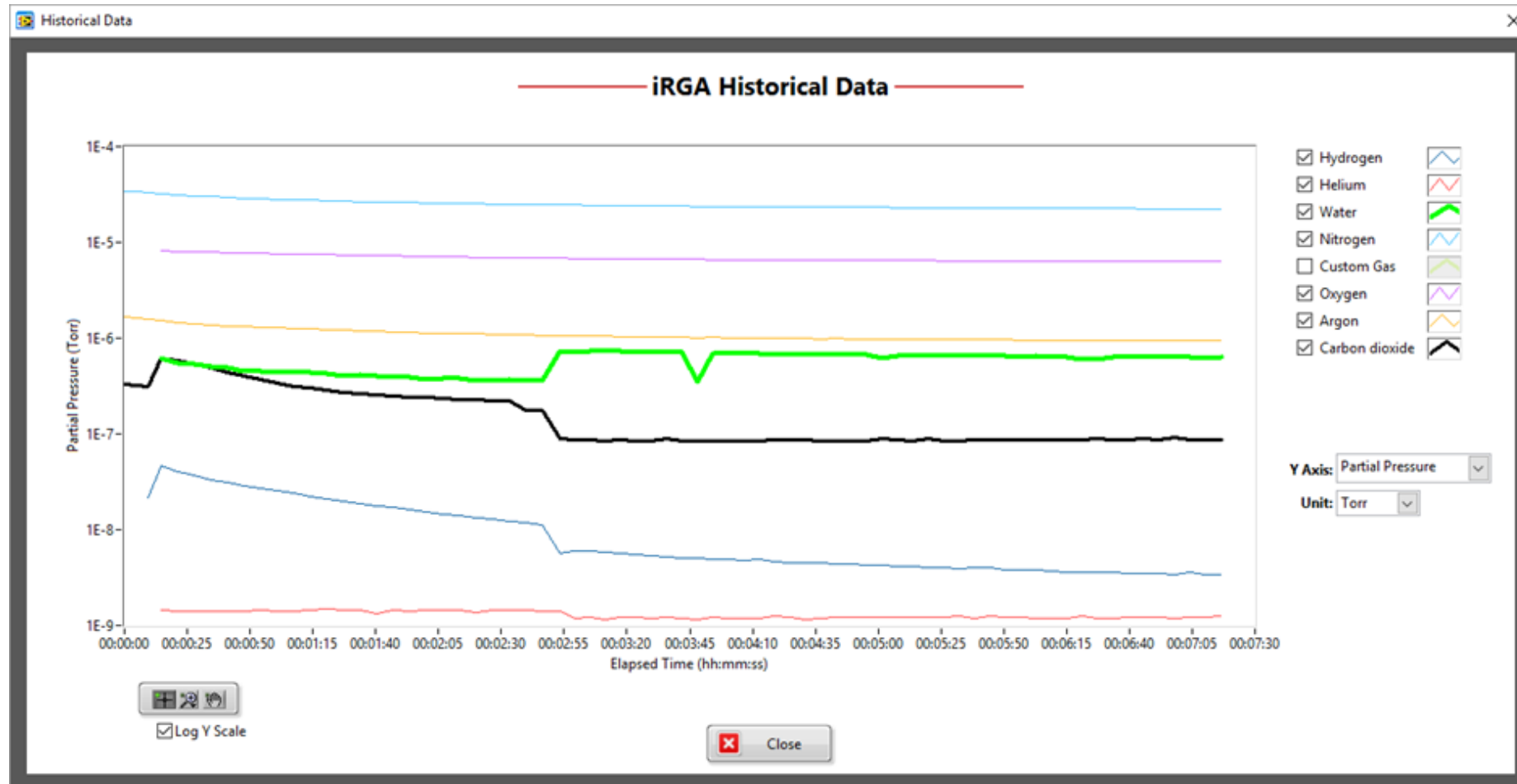
## iRGA tablet mode



Key points included in iRGA tablet mode:

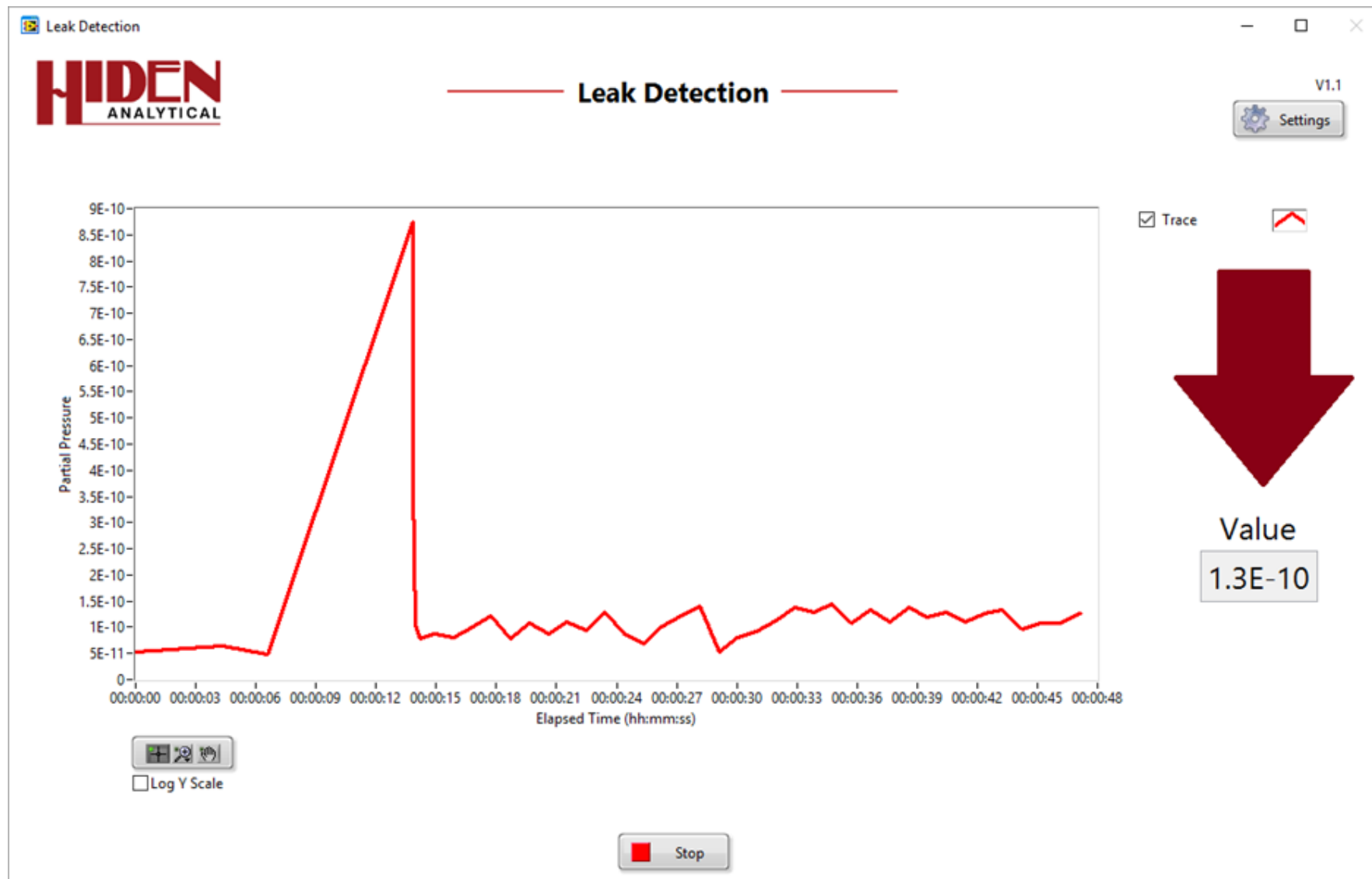
- Pressure unit choice; mBar, Torr, Pascal or normalised sum
- Real time trend view
- Action engine for alarm
- Trip output messages by email to internal I/O (5 off) and/or to Wi-Fi devices
- Auto ranging: across 10 decades dynamic range with automatic switching between Faraday cup and electron multiplier detectors

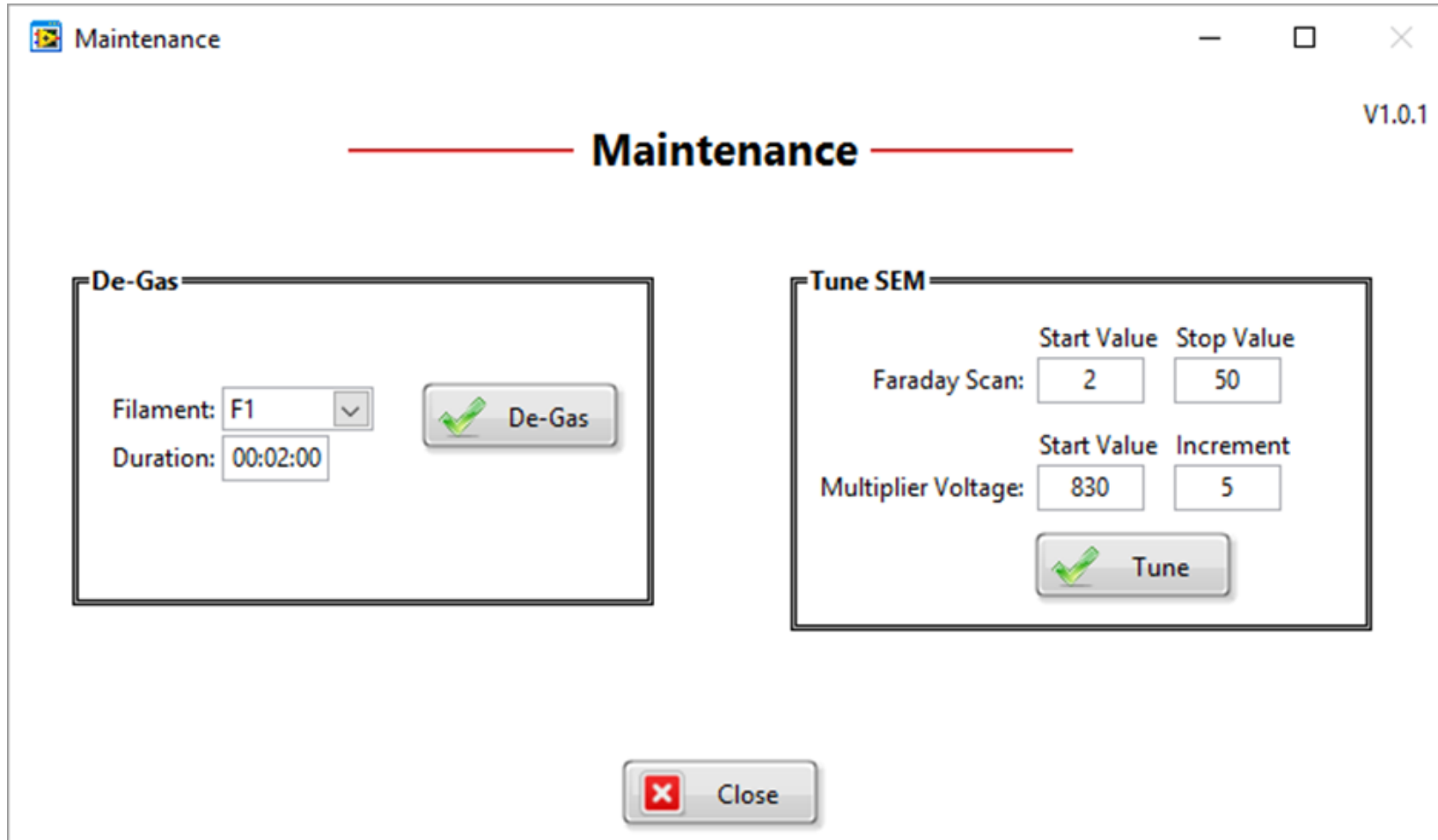
# Trend Analysis View



A trend analysis view showing the partial pressure of all gases as a function of time is available during live data acquisition and for viewing previous runs as a historical data view.

# Quadrupole Mass Spectrometers for Advanced Science





- Two built-in maintenance modes:
- Automatic ion source cleaning by a De-Gas function
  - Automatic electron multiplier calibration function

During analysis the detector can be set for Faraday only, SEM only, or to auto switch over Faraday/SEM. The auto switch over has a delay of a few seconds, and is not recommended for transient event monitoring where the partial pressures measured will cross the selected switch over value. The default switch over value is  $1 \times 10^{-8}$  mbar.



- [www.HidenAnalytical.com](http://www.HidenAnalytical.com)
- The Hiden website is an excellent resource with product pages, brochures, catalogues, product pages with some application notes, presentation and other information.
- Contact +44 1925 445225 for direct support.