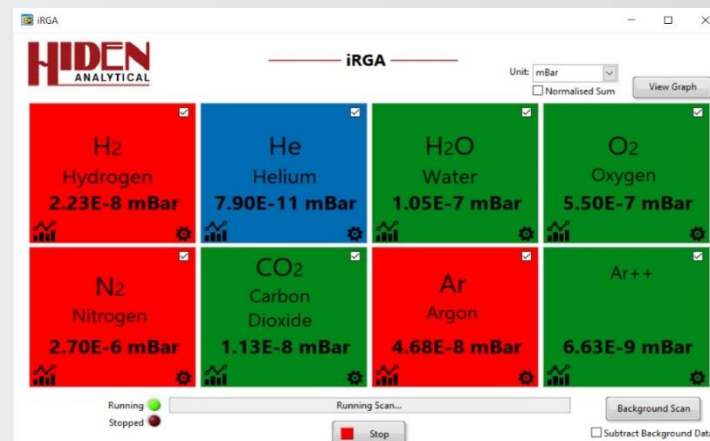


iRGA

Intuitive RGA monitor

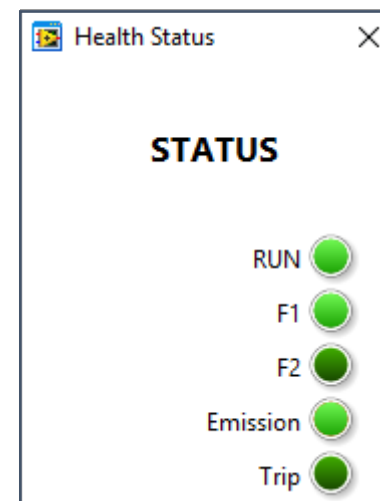
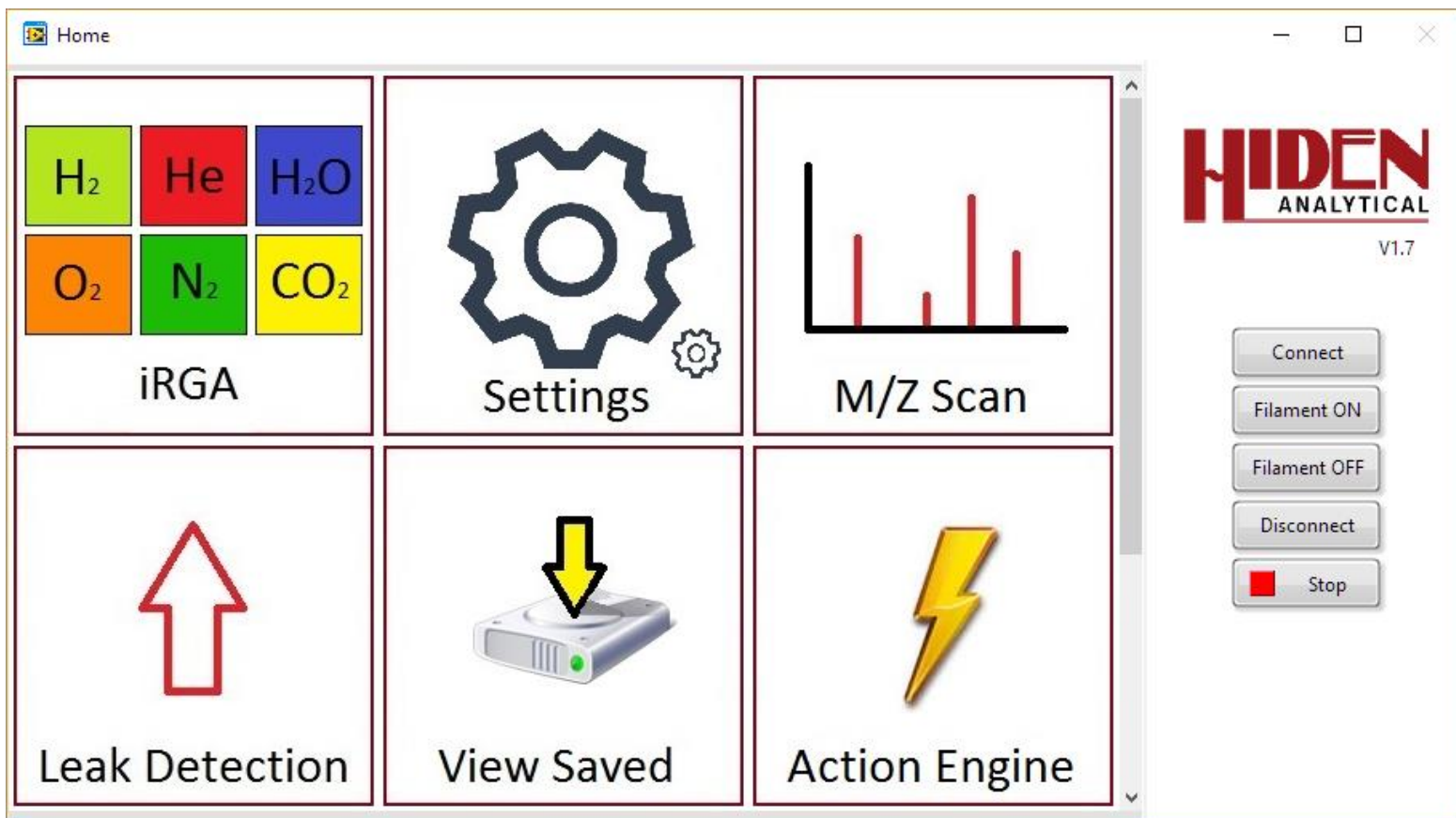
The simple way to keep an eye on your vacuum



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

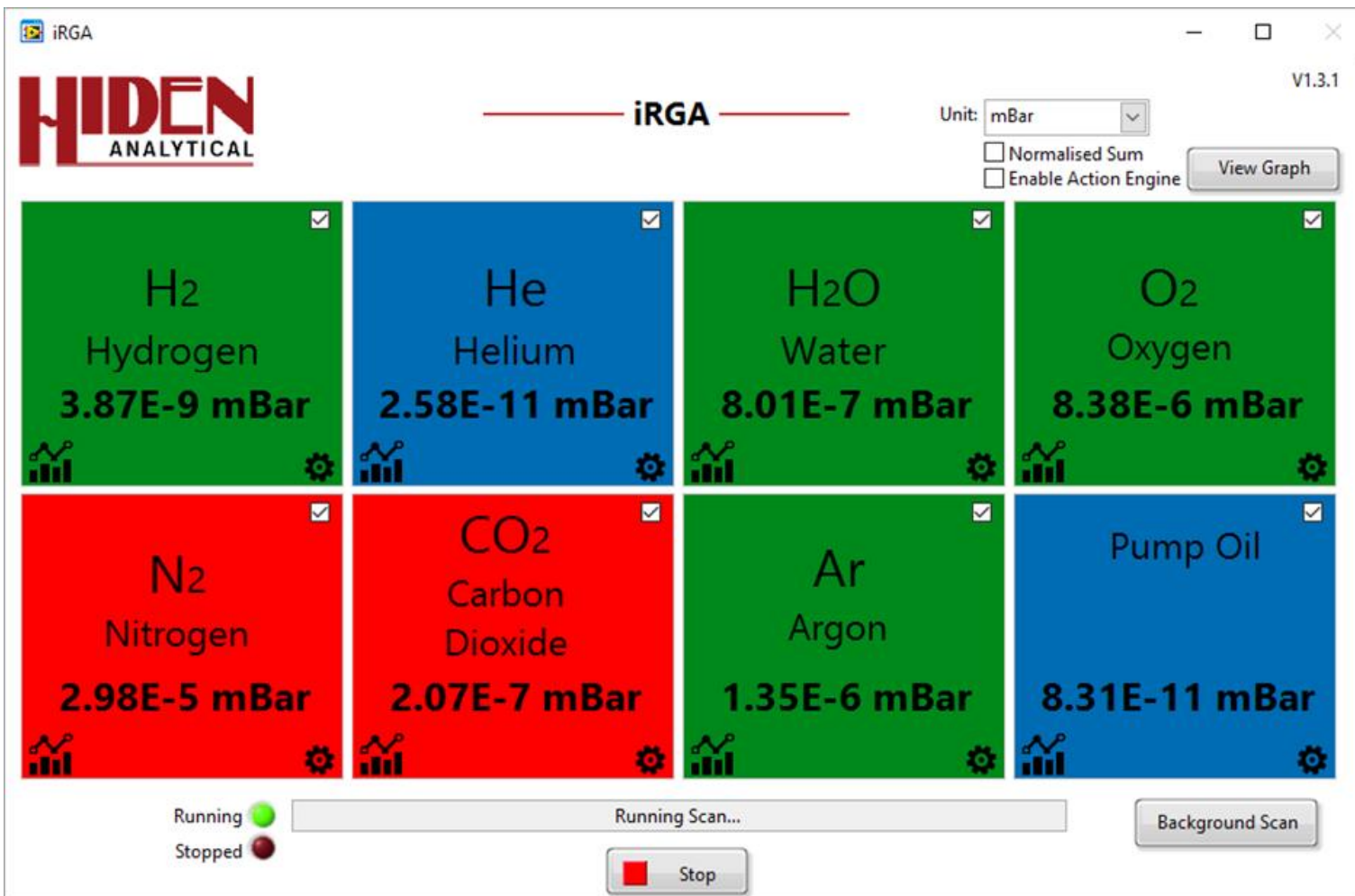
iRGA - select the mode from the tablet



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

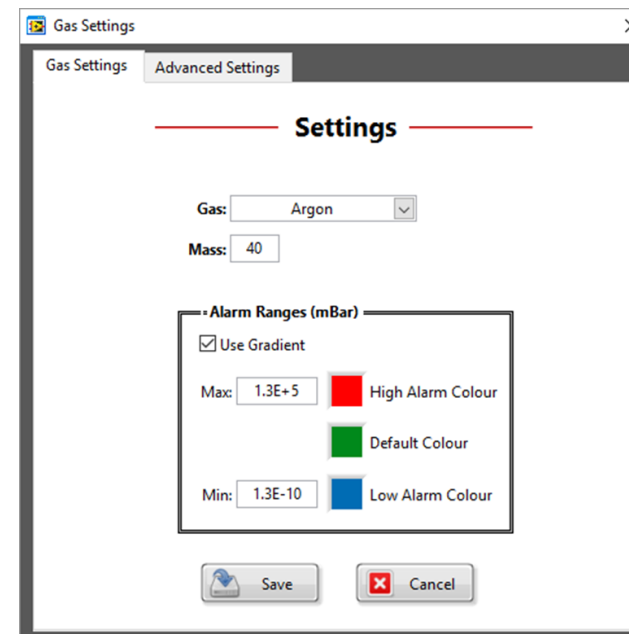


The common residual gas and vapour Species are monitored together with a colour palette to indicate status:

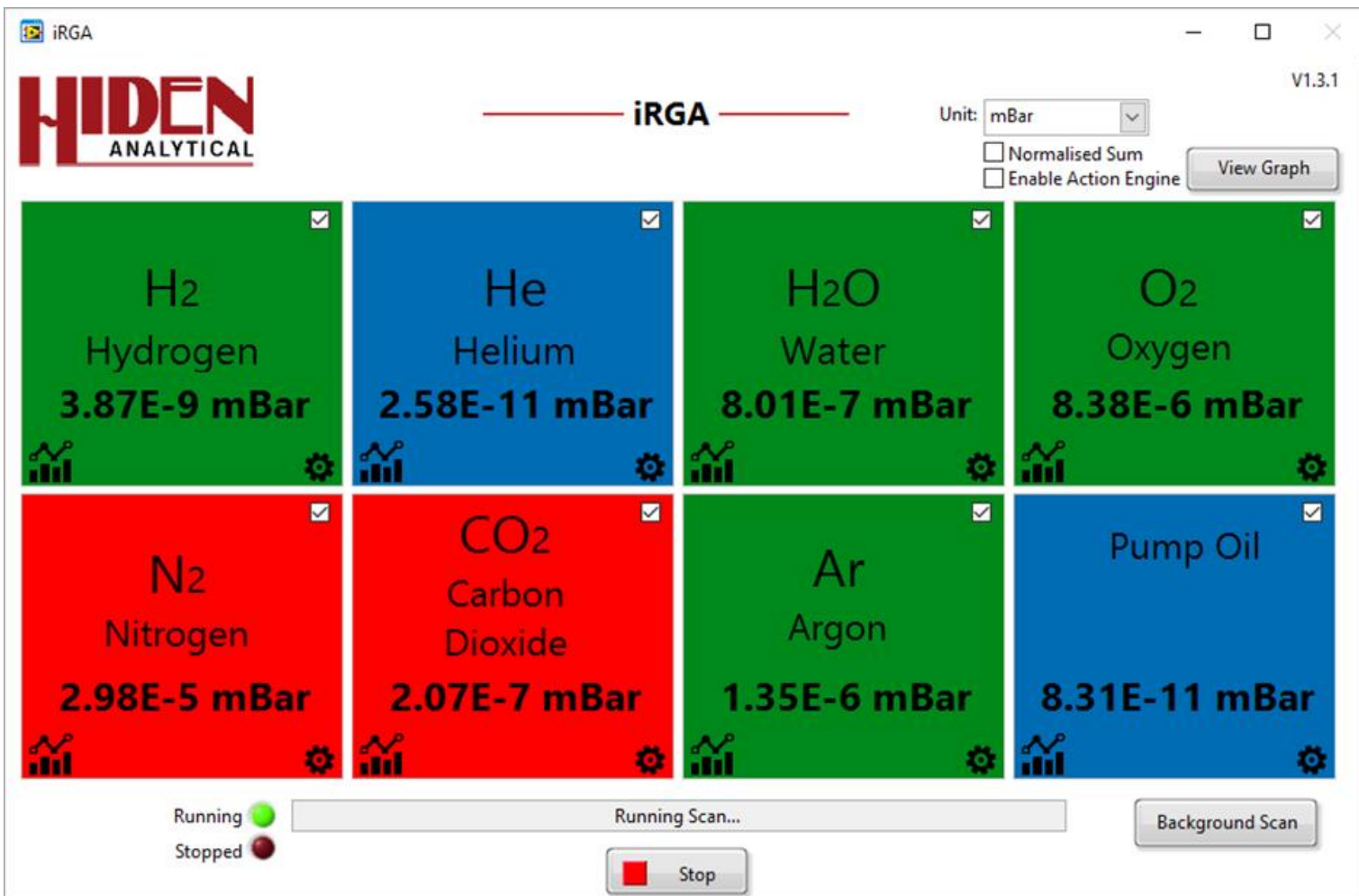
Blue = Low

Green = Normal

Red = High



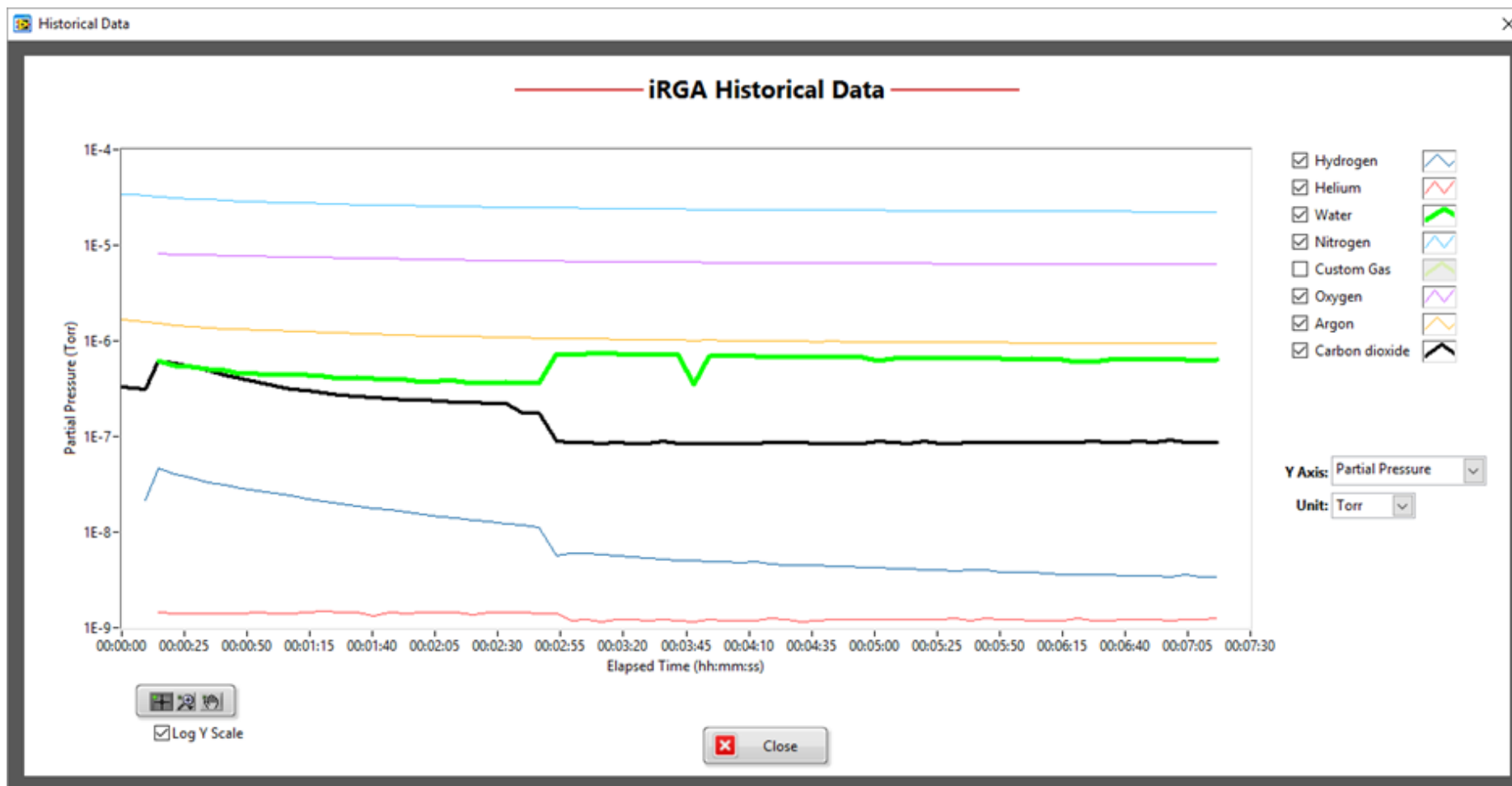
iRGA tablet mode



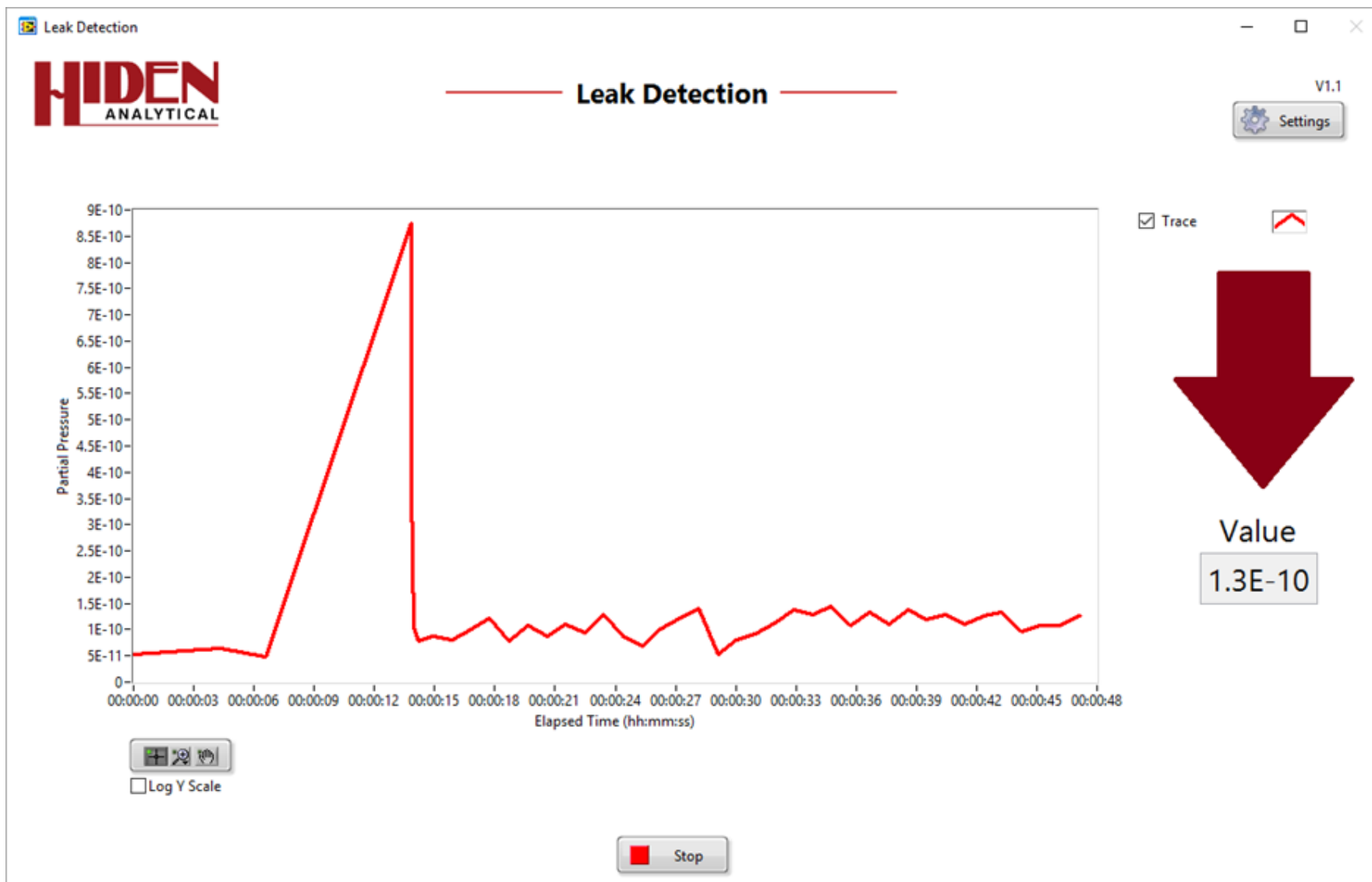
Key points included in iRGA tablet mode:

- 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.



The screenshot shows a software window titled "Maintenance" with a version number "V1.0.1" in the top right corner. The window is divided into two main sections: "De-Gas" and "Tune SEM".

De-Gas Section:

- Filament: F1 (dropdown menu)
- Duration: 00:02:00 (text input)
- A "De-Gas" button with a green checkmark icon.

Tune SEM Section:

	Start Value	Stop Value
Faraday Scan:	2	50
Multiplier Voltage:	830	5

Below the table is a "Tune" button with a green checkmark icon.

At the bottom center of the window is a "Close" button with a red 'X' icon.

- 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 1×10^{-8} mbar.



- 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.