

*IRgaskiT*

***SOFTWARE USER MANUAL***

**Edinburgh Sensors**

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## **IRgaskiT Software User Manual**

Open the IrgaskiT.exe file and set the communications port from the Comms menu. The raw detector channels, temperature and concentration data are displayed and graphed.

### **Logging Data to a File**

Press “START” and select a filename for the log file

To stop logging to a file Press “STOP”

The graphing facility will display all the channel data but when used for extended periods of time (> 2 hrs), it is advisable to set the Update Interval to 10 seconds to avoid unpredictable behaviour.

### **Calibration**

To enable the recalibration functions press “CTR-ALT-C”

The procedure for checking/adjusting the calibration is as follows:-

1. The instrument should be powered for 30minutes before checking its calibration.
  
2. Attach the ZERO gas source to the gas inlet of the adapter/sensor head. The gas flow should be about one litre/min into a suitable calibration adapter or where applicable, 0.2litres/min directly into the sensor head gas port and allow to flush for at least one minute before checking the reading. If the reading is outside the required specification, press the “Reset ZERO Gas” button)
  
3. Repeat step 2 above with SPAN gas and press the “Reset SPAN Gas” button, if required.

**\*NOTE\*** Any recalibration necessary will be conducted at the current pressure within the sensor head and so the sensor will read true volume % only at the re-calibration pressure, unless the reference pressure variable is changed to match the ambient pressure prior to re-calibration.

### **Analogue Outputs Calibration**

The analogue outputs are calibrated in the factory using certified instruments, and should not need any further calibration subsequently. However, if after careful consideration it is considered necessary to perform a recalibration, the procedures are given here:

The procedure for adjusting the voltage output calibration is as follows:-

Connect a voltmeter to pins 1 and 2 on CN8

Press the “Calibrate Voltage Output” button and follow the instructions.  
(Ensure that voltages are entered as Volts not milliVolts, and wait sufficient time for the output to settle)

The procedure for adjusting the current output calibration is as follows:-

Connect a voltage source to pin 3 on CN8, and an ammeter between pin 4 on CN8 and the voltage source return. See the IRgaskiT User Manual section 6.2 for details.

Press the “Calibrate Current Output” button and follow the instructions. (Wait sufficiently for the output to settle before reading the ammeter)