



## Release Notes: F-900

### Version 4.7.0.7

Release Date: August 9, 2017

Firmware compatible with hardware version 6 and higher only (F-900-006-XXXXX)

#### Additions

- Compatibility with G.A.S Software. Visit <https://felixinstruments.com/support/F-900/software/> to download. Known issue: CO2 and O2 labels are swapped on the software interface
- Allows set-zero with Chamber In ON (liquids chamber). To turn this feature on, goto SETUP>CALIBRATION>C2H4>OFFSET CORRECTION>USE CH\_IN
- Raw data output on by default (on csv data files)

### Version 4.7.0.4

Release Date: April 4, 2017

Firmware compatible with hardware version 6 only (F-900-006-XXXXX)

#### Changes

- Flowrate block algorithm (relaxed to prevent false positives)

#### Fixed

- Fixed bug where some users got flow blocked when entering graph mode

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### Version 4.7.0.2

Release Date: February 3, 2017

Firmware compatible with hardware version 6 only (F-900-006-XXXXX)



### **Changes**

- Flowrate is 80 mL/min (improved battery life at this flowrate)
- On-device calibration for all sensors (no PC needed)
- GC emulation only for C<sub>2</sub>H<sub>4</sub>
- Offset correction routine is now adjustable (for C<sub>2</sub>H<sub>4</sub>)
- Switching threshold between ppb C<sub>2</sub>H<sub>4</sub> sensor and ppm C<sub>2</sub>H<sub>4</sub> sensor is 4.0 ppm

### **Removed**

- Cell hydration
  - C<sub>2</sub>H<sub>4</sub> PPB saturation parameters
  - View SDCard menu item
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## **Version 4.6.6**

Release Date: November 3, 2015

### **Changes**

- Internal calibration procedure for CO<sub>2</sub> sensor to improve accuracy
  - The threshold that switches between C<sub>2</sub>H<sub>4</sub> ppb and ppm sensor has been changed to 2 ppm and 3 ppm. If the concentration of C<sub>2</sub>H<sub>4</sub> rises above 3 ppm, the C<sub>2</sub>H<sub>4</sub> ppm sensor will be used for measurements. If it falls below 2 ppm, the C<sub>2</sub>H<sub>4</sub> ppb sensor is used.
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## **Version 4.6.1**

Release Date: August 21, 2015

### **Changes**

- The connection menu has been removed from setup menu. It is no longer necessary.
- The Temperature and RH parameters are automatically populated during C<sub>2</sub>H<sub>4</sub> ppb sensor span.

### **Fixes**

- Cleaning signal is ignored during offset correction
- CO<sub>2</sub> GC emulation is improved by flushing between samples prompted by software. This is for the % CO<sub>2</sub> sensor.



- % CO<sub>2</sub> sensor calibration/parameters fix for concentrations greater than 20%

#### **Additions**

- C<sub>2</sub>H<sub>4</sub> ppb sensor manual calibration routine added using demand flow regulator. To access this routine, navigate to: Setup > Calibration > C<sub>2</sub>H<sub>4</sub> > PPB > Re-calibration
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### **Version: 4.5.26**

Release Date: July 2, 2015

#### **Additions**

- Terminal Block: pin 6 alerts the user of low battery, flow blocked, or measurement out of range
- Set zero (settings menu while in monitor mode): A stability check is added to this feature by checking that the signal does not change more than 40 ppb for a period of 10 minutes. The user is also asked to confirm whether KMnO<sub>4</sub> is present in the solids chamber before beginning the “Set Zero” routine.

#### **Fixes**

- Improved accuracy of CO<sub>2</sub> and O<sub>2</sub> measurements in GC Emulation mode

#### **Changes**

- Terminal Block: pin 5 is changed from “fan” to “measure ready”
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### **Version 4.5.18**

Release Date: June 11, 2015

#### **Fixes**

- Improves the accuracy of the CO<sub>2</sub> sensor “Monitor” mode
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### **Version 4.5.2**

Release Date: February 26, 2015



### **Additions**

- **Enable USB connection in HID mode**
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### **Version 4.5.0**

Release Date: January 23, 2015

### **Fixes**

- Firmware bug where the gas valve and fan were turning on and off at the same time regardless of the threshold set on the setup menu; this is when using the terminal block
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