

# GF 0252 Configuration Tool



3-0252.090 Rev. 4 07/23

## Operating Instructions



### Description

The 0252 Configuration Tool is a USB to Digital (S³L) convertor and Microsoft® Windows® compatible software program used for interfacing with GF 9900 Transmitters and blind sensors via a computer.

The 0252 tool and software allows the user to:

- Set application parameters (Engineering units, 4 to 20 mA span, etc.)
- Save the setting configuration data to a computer file.
- Upload a previously stored configuration data file into the GF product.
- Monitor a sensor's performance and log the data to a file.
- Reset the product settings to factory default condition.
- Calibrate 258X FlowtraMag Full Bore Magmeter, 2610 Dissolved Oxygen Sensor and pH/ORP sensors using the 2751 Smart Sensor Electronics.

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## Warranty Information





Refer to your local Georg Fischer Sales office for the most current warranty statement.

All warranty and non-warranty repairs being returned must include a fully completed Service Form and goods must be returned to your local GF Sales office or distributor.

Product returned without a Service Form may not be warranty replaced or repaired.

GF products with limited shelf-life (e.g. pH, ORP, chlorine electrodes, calibration solutions; e.g. pH buffers, turbidity standards or other solutions) are warranted out of box but not warranted against any damage, due to process or application failures (e.g. high temperature, chemical poisoning, dry-out) or mishandling (e.g. broken glass, damaged membrane, freezing and/or extreme temperatures).

## Safety Information

	<p><b>Caution / Warning / Danger</b> Indicates a potential hazard. Failure to follow all warnings may lead to equipment damage, injury, or death.</p>
	<p><b>Electrocution Danger</b> Alerts user to risk of potential of injury or death via electrocution.</p>
	<p><b>Electrostatic Discharge (ESD)</b> Alerts user to risk of potential damage to product by ESD.</p>
	<p><b>Note / Technical Notes</b> Highlights additional information or detailed procedure.</p>

## Specifications

### Compatibility

GF Products ..... 2250, 2350, 2450, 2551, 2552, 258X, 2610, 2750, 2751, and 9900 Transmitter

Operating System..... Windows 10 (32 and 64 bit)  
Windows 11 (64 bit)

### General

Enclosure..... ABS

Red Indicator ..... POWER ON

Blue Indicator..... DATA COMMUNICATION

Input connections ..... 3-terminal connectors,  
max. 14 AWG

### Electrical

Communication rate ..... Maximum 19.2 kbs

Input power..... Supplied by USB interface

Output power ..... 5 VDC ± 5%

Power consumption..... 5 V @ 15 mA

Maximum current source..... 50 mA

Maximum cable ..... 300 m (1000 ft)

### Environmental

Storage Temperature..... -20 °C to 100 °C  
(-4 °F to 212 °F)

Relative Humidity..... 0 to 90% non-condensing

Operating Temperature..... -15 °C to 55 °C  
(5 °F to 131 °F) (module only)

Shipping Weight ..... 0.22 kg (0.48 lb)

### Standards and Approvals

UKCA, CE, RoHS Compliant

China RoHS

Manufactured under ISO 9001, ISO 14001 and ISO 45001

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and,
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## Required Equipment

### Equipment:

- 3-0252 Tool: one USB to Digital (S<sup>3</sup>L) converter
- 1 m (3 ft) 9900 programming cable with terminal plug
- USB to USB extension cable
- PC / laptop with free USB port
- 24 VDC Isolated power source required for 4 to 20 mA versions of the 2551 and 2552, and all 258X and 2610 Sensors.

## Install Software

1. Download the 0252 Configuration Tool Setup file from:

[https://www.gfps.com/en-us/downloads-tools/download-center.html?assetslist%2Fitem0=company\\_group%3Agfps%2Fasset-types%2Fsoftware](https://www.gfps.com/en-us/downloads-tools/download-center.html?assetslist%2Fitem0=company_group%3Agfps%2Fasset-types%2Fsoftware)

2. Follow prompts to install the software.
3. Attach the GF 0252 Configuration Tool USB to the computer.
  - Windows will automatically download the correct device driver.

## Run Software

1. On the PC, click **Start**.
2. Click on the **Georg Fischer Signet LLC** folder.
3. Click on the **0252 ConfigTool** icon.
4. The software will be launched at this point.

**Software version** is displayed by clicking on the **Help** menu, then clicking on **About**.



### Caution

Managed systems and network systems may have security measures enabled that block the installation of this program.

See the network administrator or IT (Information Technology) staff if the software cannot be installed.

## Set Software Language

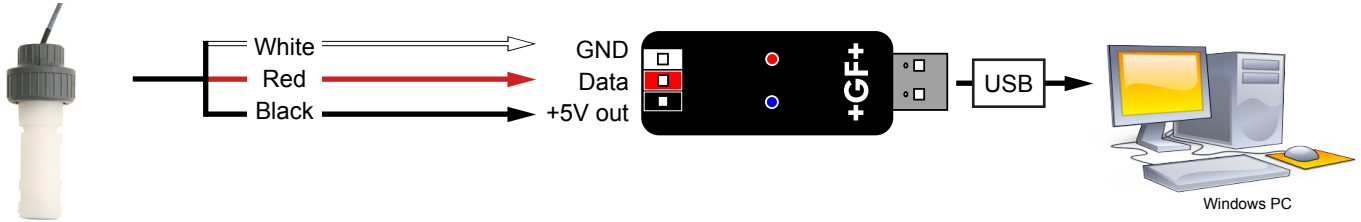
The 0252 software saves your language preferences. Each time the software is launched, the previous language selection will be used. English is the default language.

1. Click on the **File** menu in the upper left.
2. Click on **Preferences**.
3. A separate Preferences dialog box should be on the computer display.
4. Select the desired language from the drop-down menu.  
Supported languages: English, French, German, Spanish, Italian, Portuguese, Chinese
5. Click **Save** to set language preference.

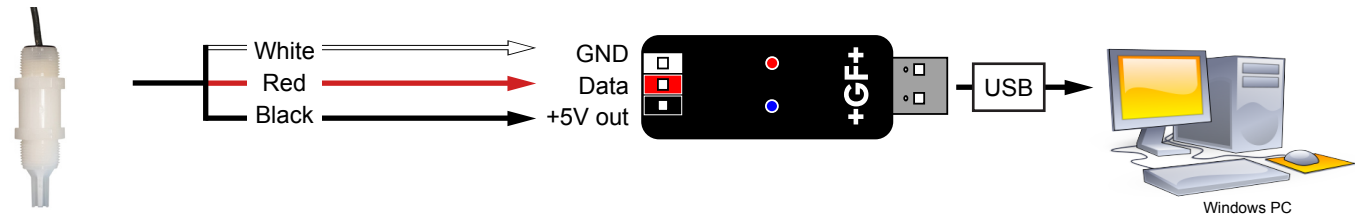


## Sensor Wiring

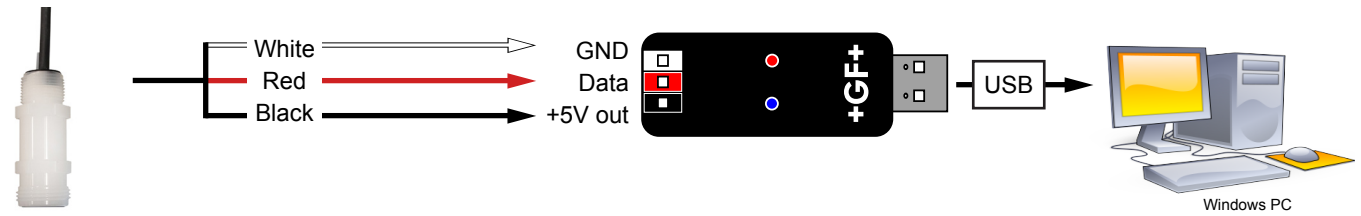
### GF 2250 Hydrostatic Level Sensor



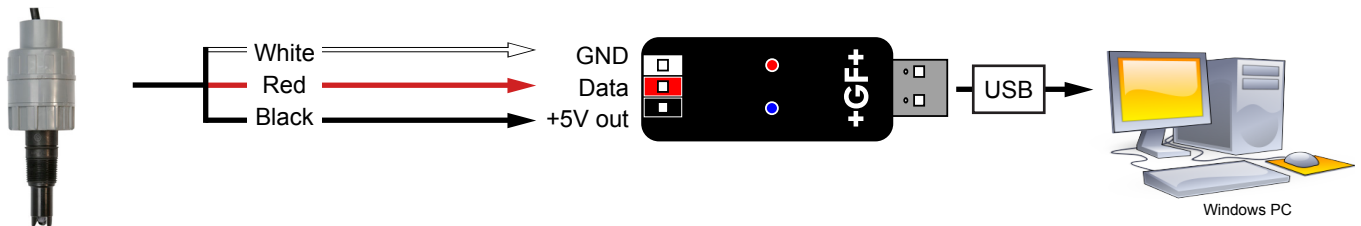
### GF 2350 Temperature Sensor



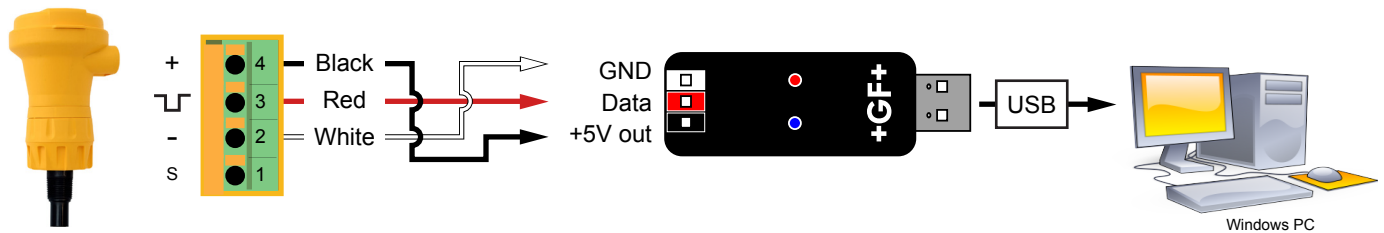
### GF 2450 Pressure Sensor



### GF 2750/2751 Submersible Electronics with pH/ORP Sensor

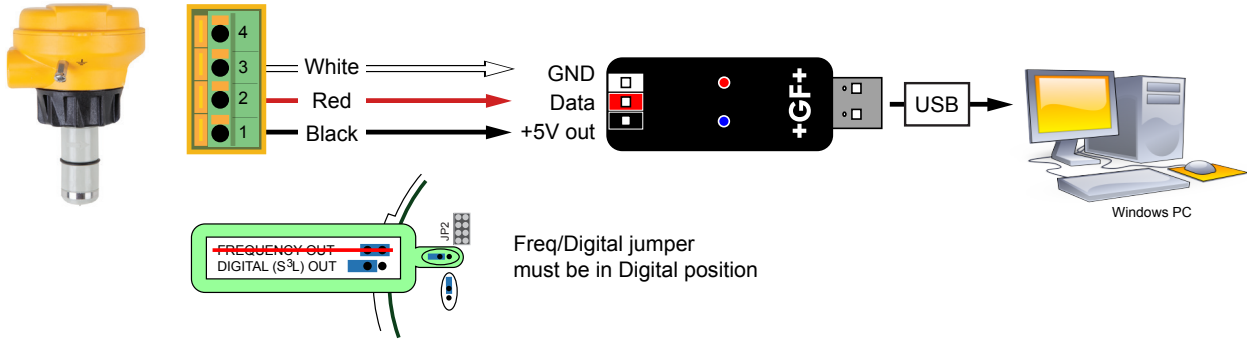


### GF 2750/2751 In-Line Electronics with pH/ORP Sensor

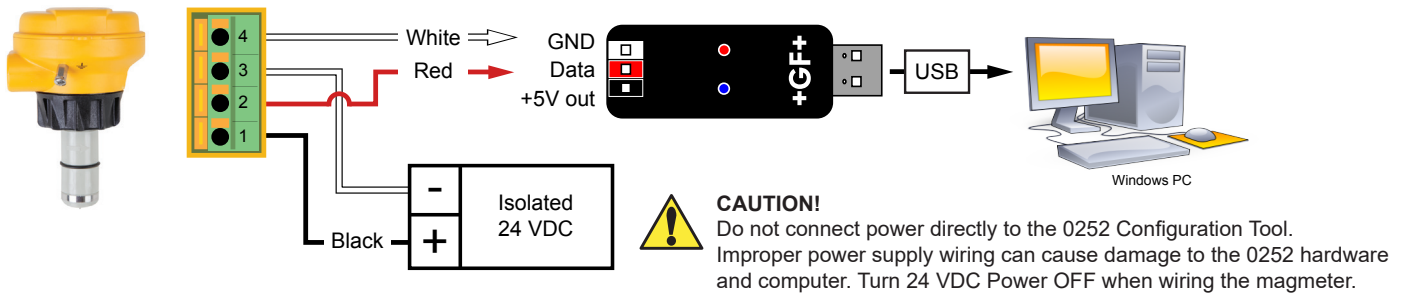


## 2551 Magmeter Wiring

### Frequency or Digital (S<sup>3</sup>L) Output

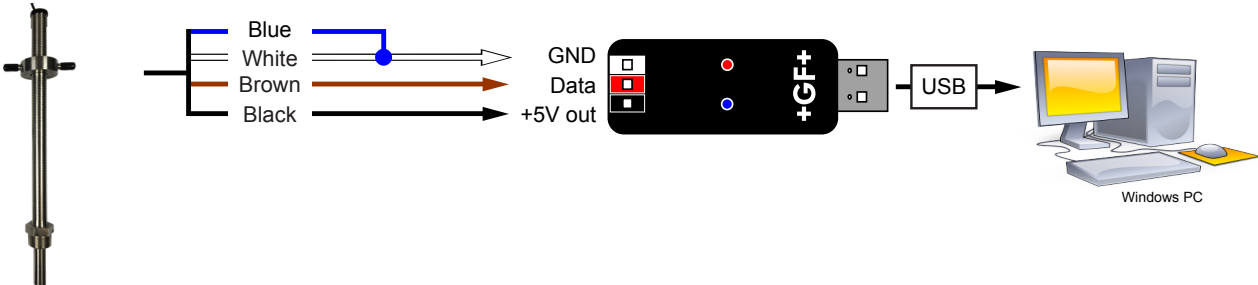


### 4 to 20 mA Output

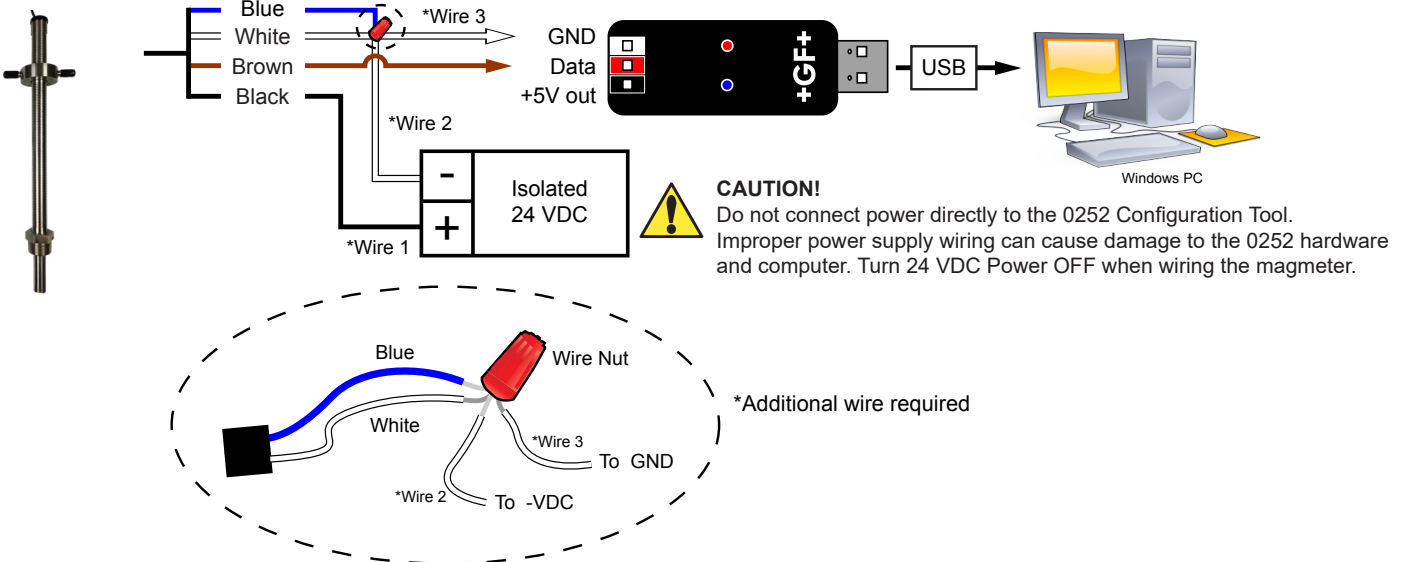


## 2552 Magmeter Wiring

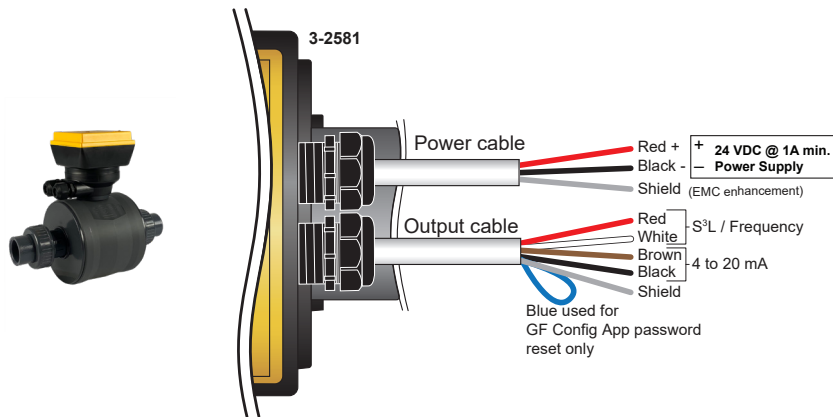
### Frequency or Digital (S<sup>3</sup>L) Output



### 4 to 20 mA Output



## 258X Wiring



### IMPORTANT

The power supply connected to the 258X must be rated for 12 to 24 VDC output at a minimum of 10 watts for correct operation.



### CAUTION!

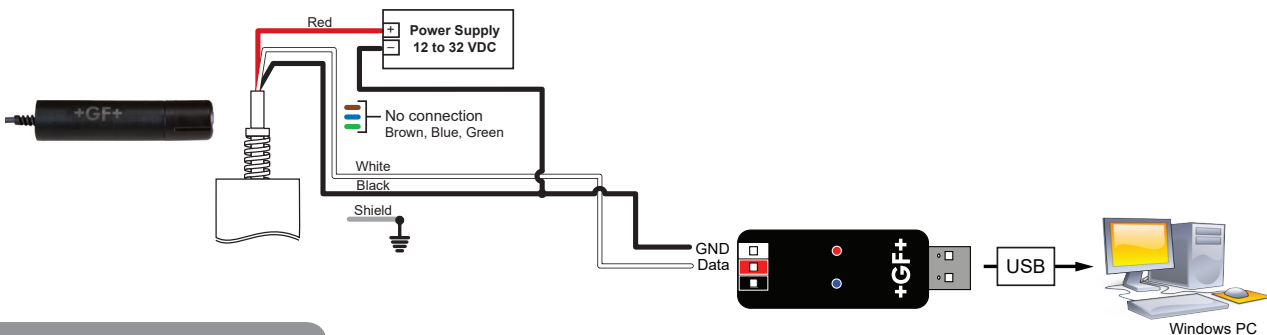
Do not connect power directly to the 0252 Configuration Tool. Improper power supply wiring can cause damage to the 0252 hardware and computer. Turn 24 VDC Power OFF when wiring the magmeter.



### IMPORTANT

The 258X must be set to S<sup>3</sup>L mode before connecting to the 0252 Tool. Failure to set the 258X to S<sup>3</sup>L will prevent the 0252 application from communicating with the 258X. The Android or iOS app will be required to set the 258X to S<sup>3</sup>L mode.

## 2610 Wiring



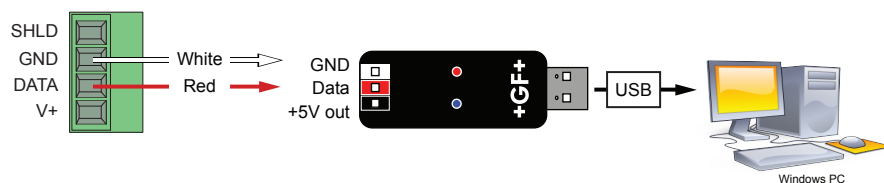
## 9900 Wiring



Disconnect power on the 9900 prior to proceeding.

If the 9900 is using the Direct Conductivity/Resistivity Module, the module will need to be removed from the 9900. Refer to the Direct Conductivity/Resistivity Module Instruction Sheet for instructions.

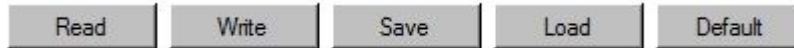
1. Disconnect power on the 9900.
2. Unplug the sensor connector from the S<sup>3</sup>L/Frequency input jack on the 9900 and connect the 0252 Tool in its place.
3. Reconnect power to the 9900.



4. After configuring the 9900, please disconnect the 0252 Tool and reconnect the Sensor.

## General Software Operation

On all screens **Read**, **Write**, **Save**, **Load**, and **Default** buttons can be found in the lower right corner.



**Read** Loads the data from the connected device (sensor or transmitter) and updates the software's display.

**NOTE:** This will overwrite any changes made in the 0252 software since the last **Write**.

**Write** Applies the data entered in the 0252 software to the connected device. Once you have entered the desired setting changes in the software screens, press **Write** to load your new settings onto the connected device.

**Save** Stores the entire 0252 settings configuration, as currently displayed in the application, to a specified location on your computer. (You will be asked to select a file location and provide a file name)

**Load** Opens a previously saved settings configuration file. See **Save** function above.

**NOTE:** The file must be a 0252 settings configuration file.

The software will verify whether the user-selected file is the correct type.

**Default** Resets all data on all application screens to a factory default condition. A confirmation dialog box will be presented with a warning explaining all un-saved configuration information will be erased.

After resetting the software to a factory default condition, click **Write** to reset the connected device to a factory default condition.

**NOTE:** Performing the above reset to factory default condition will not change the input type on the 9900 Transmitter.

**NOTE:** Certain sensors, 2250, 2450, and 258X will request sensor specific information for the default setting such as range or size.

## Sensor Operation

Application settings:			2250	2350	2450	2750	2751
1	Engineering units		in., ft, cm, m	°C or °F	psi, kpa, bar	pH or (ORP)	pH or (ORP)
<b>Loop Output settings:</b>							
2	4 mA Set Point	Min	0	-10 °C (14 °F)	0	0 pH (-1000 mV)	-1 pH (-1999 mV)
		Max	-XU: 276.8 in., 23.07 ft, 703.1 cm, 7.03 m -XL: 1384.0 in, 115.33 ft, 3515.0 cm, 35.15 m	100 °C (212 °F)	psi: 10, 50, 250 kpa: (69, 344.7, 1723.7) bar: (0.7, 3.5, 17.2)	14 pH (2000 mV)	15 pH (1999 mV)
3	20 mA Set Point	Min	0	-10 °C (14 °F)	0	0 pH (-1000 mV)	-1 pH (-1999 mV)
		Max	-XU: 276.8 in., 23.07 ft, 703.1 cm, 7.03 m -XL: 1384.0 in, 115.33 ft, 3515.0 cm, 35.15 m	100 °C (212 °F)	psi: 10, 50, 250 kpa: (69, 344.7, 1723.7) bar: (0.7, 3.5, 17.2)	14 pH (2000 mV)	15 pH (1999 mV)
<b>Write or Save settings:</b>							
4a or 4b	Click "Write" to copy these settings to the product.						
	Click "Save" to save these settings to a local computer file for later use.						
5	To use a saved file (from 4b):						
	1. Click "Load"						
	2. Navigate to the saved file						
	3. Select "Open"						
	4. Click "Write"						
	5. Click "Read" to confirm						

## 2551 & 2552 Operation

Application settings:		Factory Set	2551 & 2552
1	Flow Units	m	m, ft, m <sup>3</sup> , L, ft <sup>3</sup> , US Gal, Imp. Gal, Acre in.
2	Time Base	sec	Sec, Min, Hour, Day
3	Pipe ID (Inside Diameter) *	44.0	0 - 5000
4	Pipe ID Units	mm	mm, in.
5	K-Factor Units	Pulses / Liter	Pulses / Liter, Pulses / Gallon
6	K-Factor *	65.76670	0.000100 - 999999.1 See Magmeter manual. Available at <a href="http://www.gfps.com">www.gfps.com</a>
7	Averaging (in seconds)	14	1/10, 1/4, 1/2, 1, 1 1/2, 3, 7, 14, 25, 50, 100
8	Sensitivity (%)	25	100, 50, 30, 25, 20, 15, 10, 8, 5, 2
9	Noise Rejection (Hz)	60	50 or 60
10	Low Flow Cut Off (% of full scale)	0	0 to 20% Full Scale
<b>Loop Output settings:</b>			
11	4 mA Set Point (Flow Units / Time Base)	0.00000	0.00000 - 999999.00000
12	20 mA Set Point (Flow Units / Time Base)	5.00000	

### Write or Save settings:

- |                  |   |
|------------------|---|
| 13a<br>or<br>13b | Click "Write" to copy these settings to the product.                        |
|                  | Click "Save" to save these settings to a local computer file for later use. |

- 14 To use a saved file (from 13b):
1. Click "Load"
  2. Navigate to the saved file
  3. Select "Open"
  4. Click "Write"
  5. Click "Read" to confirm

\* **NOTE:** A proper re-span of the 4 to 20 mA Loop will also require the correct internal pipe ID and K-factor, as both are used to find the effective velocity of the pipe.



# 2551 & 2552 Operation

The screenshot shows the GF+ software interface for configuring a 2551/2552 sensor. The interface is divided into a sidebar on the left and a main configuration panel on the right. The sidebar displays four sensor models: 2250, 2350, 2450, and 255x. The 255x model is highlighted with a red box. The main configuration panel has four tabs: Application, Loop, Information, and Monitor. The Application tab is active, showing the following settings:

- 1 Flow Units: Meters
- 2 Time Base: Second
- 3 Pipe ID Units: 44.00000
- 4 Pipe ID Units: mm
- 5 K-Factor Units: Pulses/Liter
- 6 K-Factor: 65.76670
- 7 Averaging: 14 Seconds
- 8 Sensitivity: 25%
- 9 Noise Rejection: 60 hz
- 10 Low Flow Cut Off: 0.01 %

Red annotations 11 & 12 point to the Application and Loop tabs. Red annotations 13a and 13b point to the Read and Write buttons at the bottom of the configuration panel.

(General Software Operation, pg. 7)

## Notes:

<b>Averaging</b>	Set the time the Magmeter will use as the averaging period. Example: With averaging at 14 seconds, each display is an average of the previous 14 seconds input. Use higher averaging times to smooth the display and current output where the flow in the pipe is erratic.
<b>Sensitivity</b>	Set the percentage of change in the flow rate required to allow the Magmeter to override AVERAGING and jump to a new flow rate immediately (2551 maximum range is 10 m/s). See Magmeter manual for an explanation of Averaging and Sensitivity: <a href="http://www.gfps.com">www.gfps.com</a>
<b>Noise Rejection</b>	Select 50 Hz or 60 Hz according to local AC power specifications.
<b>Low Flow Cut Off</b>	Set the flow rate where all Magmeter outputs will be forced to zero. When the flow rate is at or below this value, the frequency output will be 0 Hz and the current output will be 4 mA.

## 258X Operation

### Application settings:

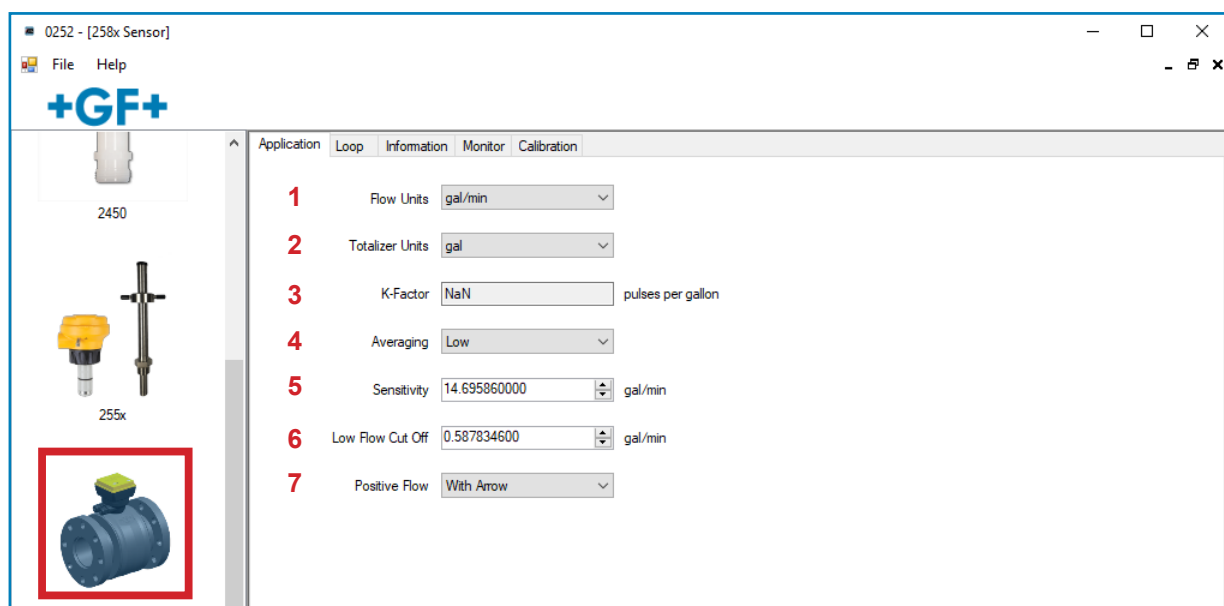
1	Flow Units of Measure
2	Total Units of Measure
3	K-Factor - Click Read to Update
4	Averaging
5	Sensitivity (%)
6	Low Flow Cut Off
7	Positivity Flow Direction

### Loop Output settings:

8	4 mA Set Point (Flow Units / Time Base)
9	20 mA Set Point (Flow Units / Time Base)
10	Error Current Output Selection
11	Click 4 mA Adjust button to change the 4 mA current
12	Click 20 mA Adjust button to change the 20 mA current
13	Select Output modes, 4 to 20 mA as either Active or Passive, S <sup>3</sup> L or Frequency output. Note: Setting the 258X to frequency will prevent the use of the 0252 tool. You will need to change the 258X back to S <sup>3</sup> L using the Android or iOS app before using the 0252 software.

### Information:

14	Serial Number
15	Part Number
16	Order Number
17	Body Material
18	Body Size
19	Permanent Totalizer - Click Read to Update
20	Resettable Totalizer - Click Read to Update
21	Reset Resettable Totalizer to Zero
22	Bluetooth Device Tag
23	Bluetooth Passkey
24	Click to Save or Cancel Bluetooth Device Tag and Passkey Update




0252 - [258x Sensor]

File Help

**+GF+**

2450



255x

258x

2610

2750

Application | Loop | Information | Monitor | Calibration

**8** 4mA Set Point 0.00000000 gal/min

**9** 20mA Set Point 174.97000000 gal/min

**10** Error Current  3.6 mA  22 mA  None

**11** 4mA Adjust 4 mA

**12** 20mA Adjust 20 mA

**13** Current Output Mode  Active  Passive


Frequency / S3L Output Mode  Frequency  S3L

0252 - [258x Sensor]

File Help

**+GF+**

2450



255x

258x

2610

2750

Application | Loop | Information | Monitor | Calibration

**14** Serial Number

**15** Sensor Part Number

**16** Sensor Order Number

**17** Body Material

**18** Body Size

Cal Adjustment Made to the Factory Calibration 0 %

Zero Offset Adjustment 0 m/s

Totalizers

**19** Permanent Totalizer 0 gallon

**20** Resettable Totalizer 0 gallon  **21**

Bluetooth Data

**22** Device Tag FlowtraMag XXXX

**23** Device Passkey 000000

**24**

## 258X Calibration

### Calibration settings:

1	Start Rate Calibration
2	Start Volumetric Calibration
3	Start Zero Flow Calibration - Not recommended
4	Reset Rate Calibration to Factory default
5	Reset Zero Flow Calibration to Factory default

### Flow Rate settings:

6	Wait for flow reading to stabilize then enter correct flow and Click Set Flow
7	Cancel Flow Rate Calibration and return to Calibration screen

### Volumetric settings:

8	Start Volumetric Calibration
9	Stop Volumetric Calibration after the desired Volume has passed
10	Enter Volume and click Set Volume to Calibrate
11	Cancel Volumetric Calibration and return to Calibration screen

0252 - [258x Sensor]

File Help

**+GF+**

2450

255x

258x

2610

Application Loop Information Monitor Calibration

Calibration

1 Click to Start Rate Calibration Rate

2 Click to Start Volumetric Calibration Volumetric

3 Click to Start Zero Flow Calibration Zero Flow

Reset Calibration

4 Reset Flow Calibration Flow

5 Reset Zero Flow Calibration Zero

Rate ✕


Flow Rate Calibration

Live Reading

Allow reading to stabilize.  
Once the flow reading is stable, enter the correct flow and click Set Flow.  
To cancel the calibration, click the Cancel button.

16.93876 gal\_min  
25 °C

Set Actual Flow  Set Flow **6**



**7**  
Cancel

Volumetric ✕

Volumetric Calibration

Live Reading

Volumetric Calibration is done by measuring the volume of fluid dispensed during the calibration.


Click the Start Calibration button when the fluid flow is started.  
Once the desired amount has been dispensed, stop the flow and click on the Stop Calibration button.  
Enter the amount of fluid dispensed and click the Set Volume button.  
To cancel the calibration click the Cancel button.

3.141534

Start Calibration **8**

Stop Calibration **9**

Set Actual Amount Dispensed  Set Volume **10**



**11**  
Cancel

## 2610 Operation

### Application settings:

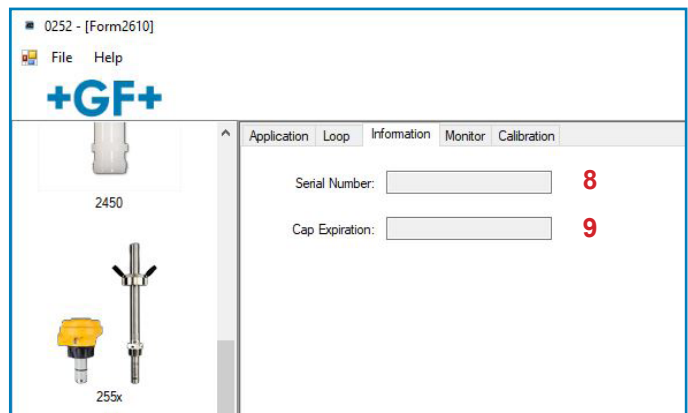
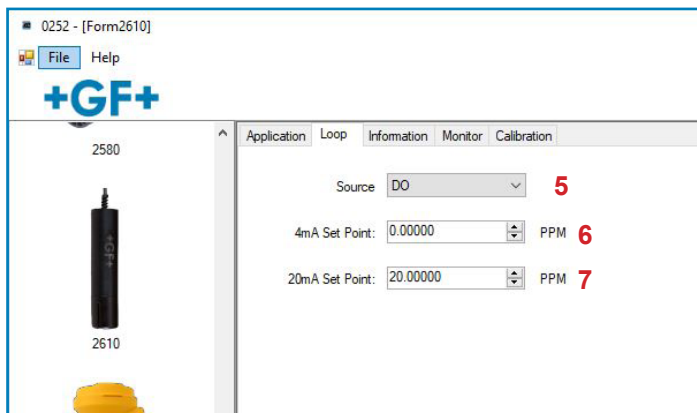
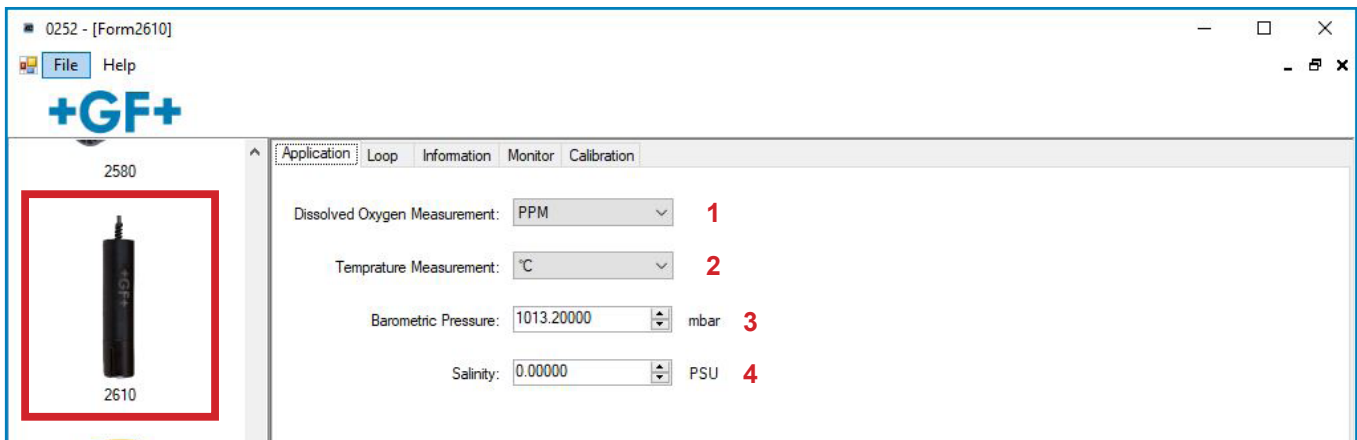
1	Select Dissolved Oxygen Units of Measure
2	Select Temperature Units of Measure
3	Enter Local Barometric Pressure for Altitude Compensation
4	Enter Water Salinity Value for Salt Compensation (0 = Fresh Water)

### Loop Output settings:

5	Select Measurement, Dissolved Oxygen or Temperature, for 4 to 20 mA Output
6	Set 4 mA Set Point
7	Set 20 mA Set Point

### Information:

8	Read Only, Sensor Serial Number - Click Read to Update
9	Read Only, Sensor Cap Expiration Date, for 3-2610-41 - Click Read to Update



# 2610 Calibration

## Calibration settings:

1	Click to Start Dissolved Oxygen Saturation
2	Click to Reset Dissolved Oxygen Calibration to Factory Default

## First Point settings:

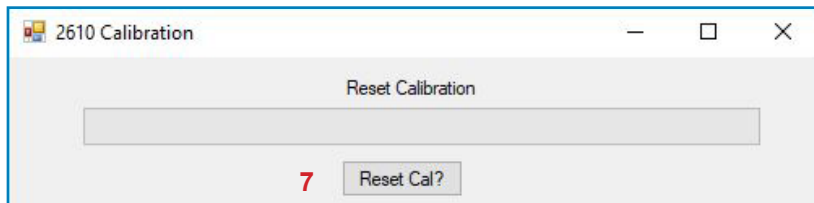
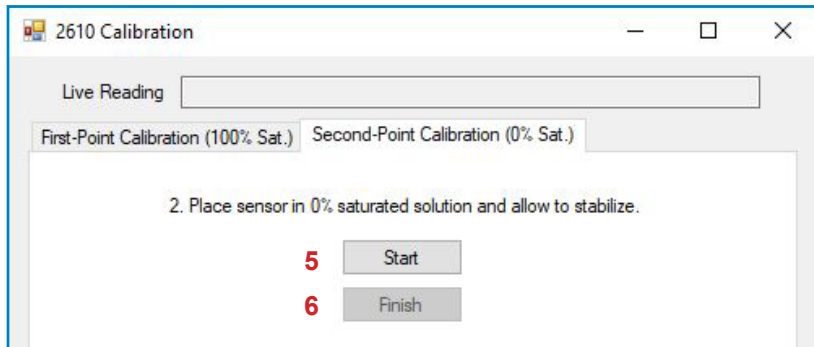
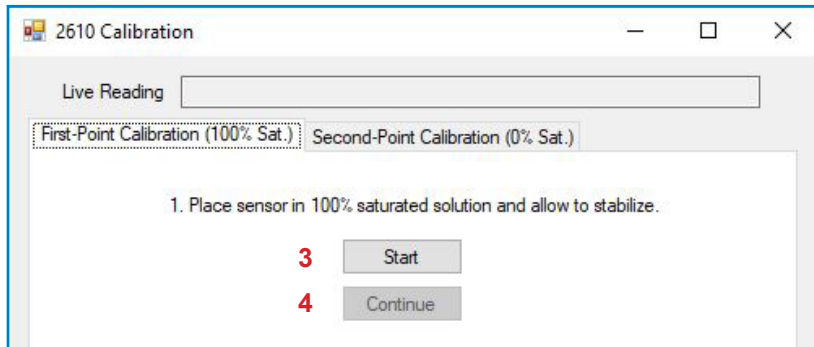
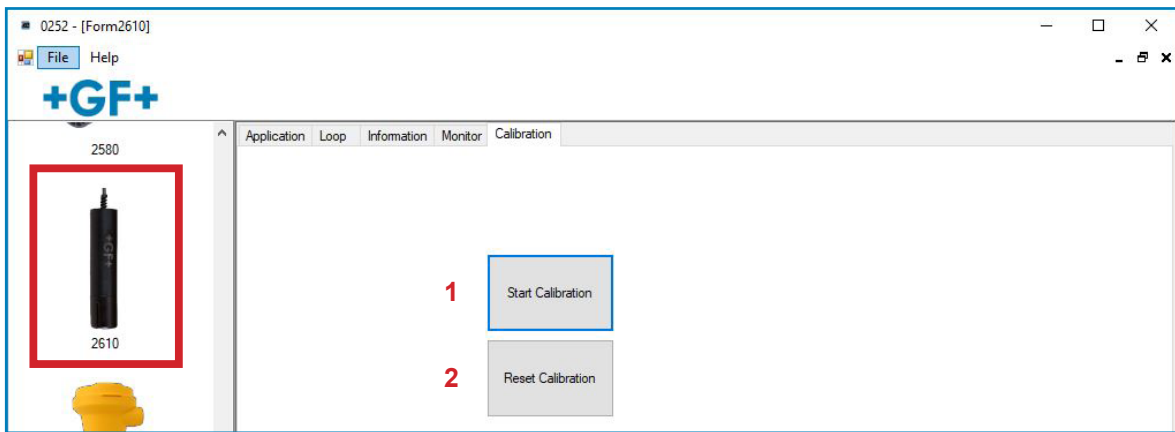
3	With probe in 100% Saturated Water click Start to begin the Calibration
4	Once probe reading is stable click Continue

## Second Point settings:

5	With probe in 0% Saturated Water click Start to begin the second point Calibration
6	Once probe reading is stable click Finish to complete calibration

## Reset Calibration:

7	Click Reset Cal to reset the DO calibration to Factory Default
---	--



## 2751 Operation

### Application settings:

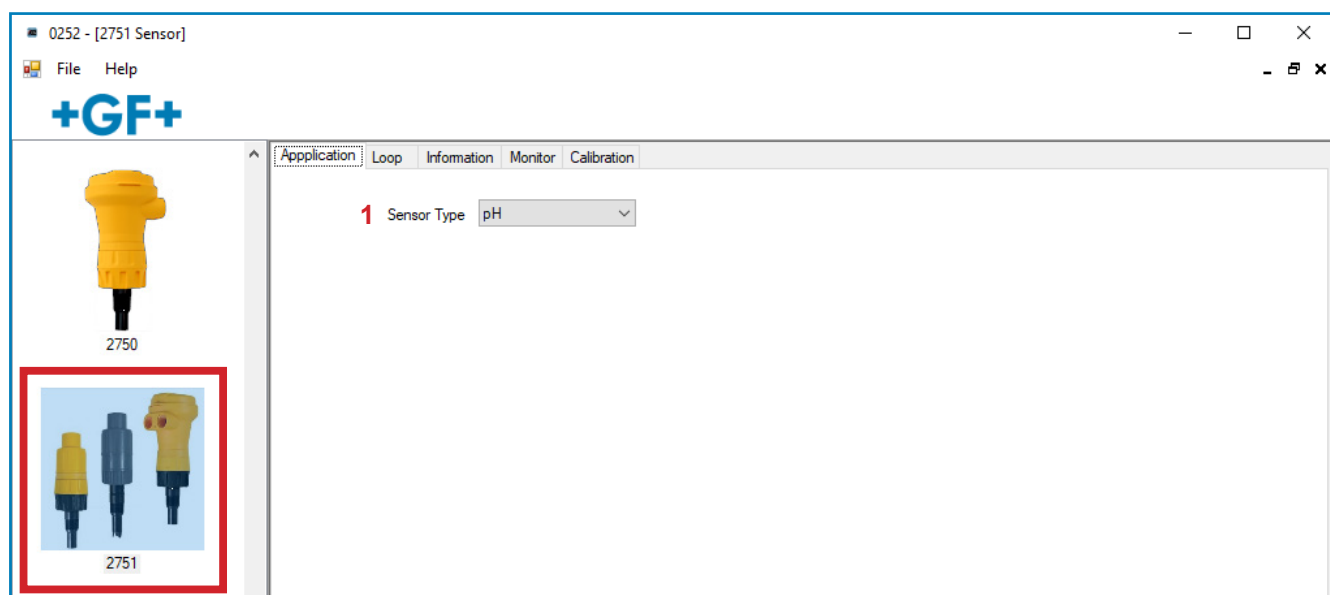
- |   |                         |
|---|-------------------------|
| 1 | Select Either pH or ORP |
|---|-------------------------|

### Loop settings:

- |    |  |
|----|--|
| 2  | Set 4mA Set Point  |
| 3  | Set 20 mA Set Point                                      |
| 4  | Missing Electrode Alarm Current (pH or ORP)              |
| 5  | Broken pH Glass Alarm Current (pH)                       |
| 6  | Electrode Voltage out of Range Alarm Current (pH or ORP) |
| 7  | High Glass Impedance Alarm Current (pH)                  |
| 8  | Broken Glass Impedance Set Point for Alarm (pH)          |
| 9  | High Glass Impedance Set Point for Alarm (pH)            |
| 10 | Glass Impedance Update Timer (pH)                        |

### Information settings:

- |    |   |
|----|---|
| 11 | Click Get Data to Update Sensor Data                      |
| 12 | Electrode Serial Number (pH or ORP)                       |
| 13 | Electrode Part Number (pH or ORP)                         |
| 14 | Slope (pH or ORP)   |
| 15 | Offset (pH or ORP)  |
| 16 | Temperature Offset (pH)                                   |
| 17 | Factory Impedance (pH)                                    |
| 18 | Usage Time (pH or ORP)                                    |
| 19 | Minimum pH/mV (pH or ORP)                                 |
| 20 | Maximum pH/mV (pH or ORP)                                 |
| 21 | Minimum Temperature (pH)                                  |
| 22 | Maximum Temperature (pH)                                  |
| 23 | Click to Measure Glass Impedance (pH)                     |
| 24 | Click to Measure Junction Impedance (pH or ORP 276x Only) |






0252 - [2751 Sensor]

File Help


**+GF+**

Application | Loop | Information | Monitor | Calibration


2580



2610



2750



2751

**Current Loop Span**

**2** 4mA Set Point 0.00 pH

**3** 20mA Set Point 14.00 pH

**Current Loop Alarms**

Alarm Condition	3.6mA	22mA	Off
<b>4</b> Missing Electrode	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>5</b> Broken Glass	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
<b>6</b> Electrode Voltage Out of Range	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<b>7</b> High Glass Impedance	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

**Glass Impedance Alarm Points**

**8** Broken Glass Impedance 3.00 M Ohms

**9** High Glass Impedance 2000.00 M Ohms


**10** Glass Impedance Update Time 3600.00 Seconds

File Help


**+GF+**

Application | Loop | Information | Monitor | Calibration


2580




2610



2750



2751



2751 Serial Number 61903061545

**Sensor Data**

**11** Retrieve Sensor Data

**Sensor Data**

<b>12</b> Serial Number	1903041038	Usage Time	703	Hours	<b>18</b>
<b>13</b> Part Number	272400-	Minimum pH	2.46	pH	<b>19</b>
<b>14</b> pH Slope	100.00	%	Maximum pH	89.50	pH <b>20</b>
<b>15</b> pH Offset	0.000	pH	Minimum Temperature	-176.35	C <b>21</b>
<b>16</b> Temperature Offset	1.05	C	Maximum Temperature	26.72	C <b>22</b>
<b>17</b> Factory Impedance	945.042	M Ohms			

**Sensor Impedance**

Measure Glass Impedance  Measure Junction Impedance

**23** Glass Impedance 1016.459 M Ohms **24** Junction Impedance M Ohms

## 2751 Calibration

### Calibration settings:

- |   |   |
|---|---|
| 1 | pH/ORP Tab - Click to perform pH Calibration                    |
| 2 | Temperature Tab - Click to perform Temperature Calibration (pH) |

### Calibration pH settings:

- |   |   |
|---|---|
| 3 | Start Calibration - Click to start pH/ORP Calibration             |
| 4 | Reset Calibration - Click to reset calibration to Factory Default |

### pH Calibration settings:

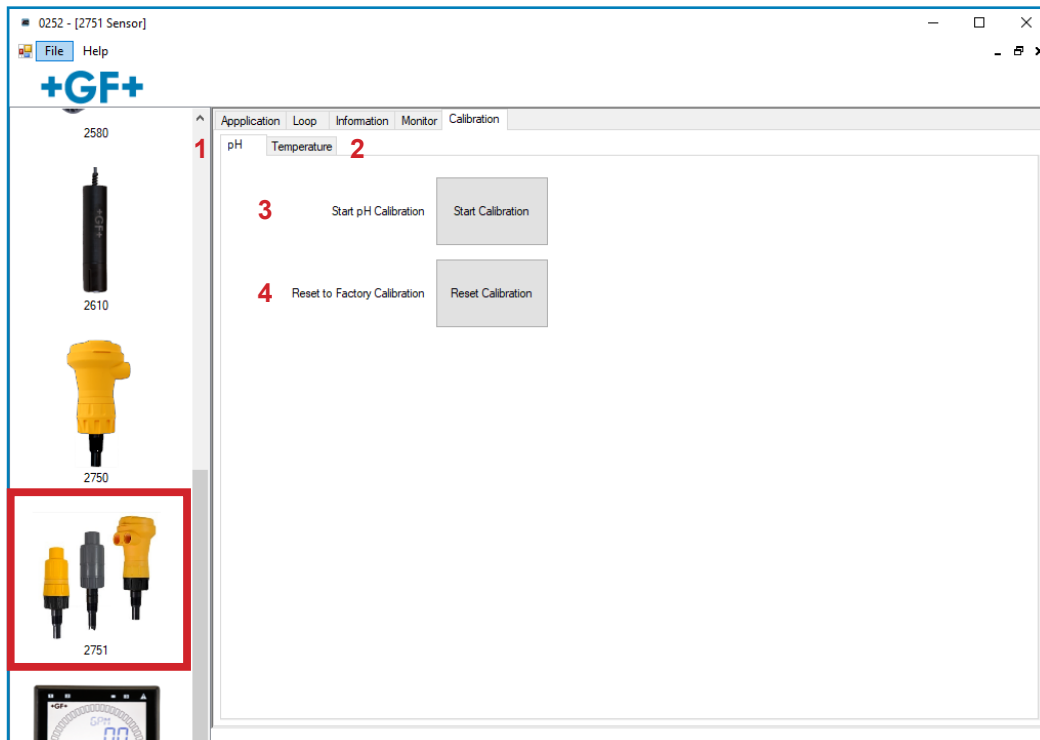
- |    |   |
|----|---|
| 5  | Wait for reading to stabilize then click Continue                   |
| 6  | To cancel calibration click Cancel and return to Calibration Screen |
| 7  | Enter pH/ORP Value  |
| 8  | Click Next for two point calibration                                |
| 9  | Click End to complete one point calibration                         |
| 10 | To cancel calibration click Cancel and return to Calibration Screen |

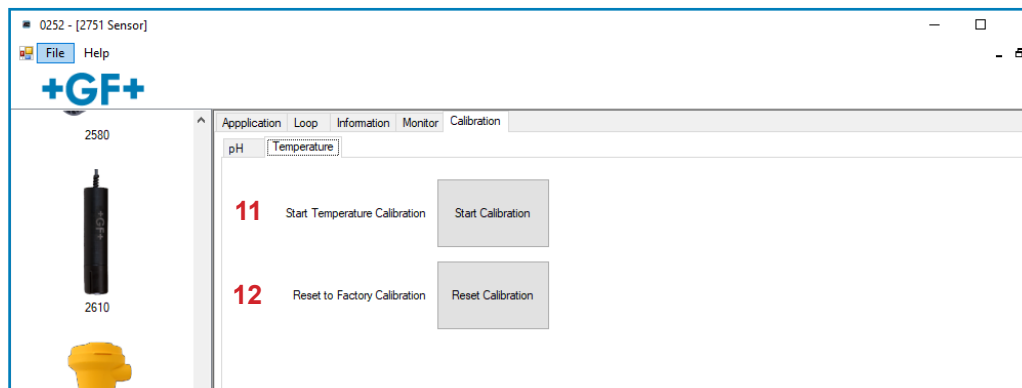
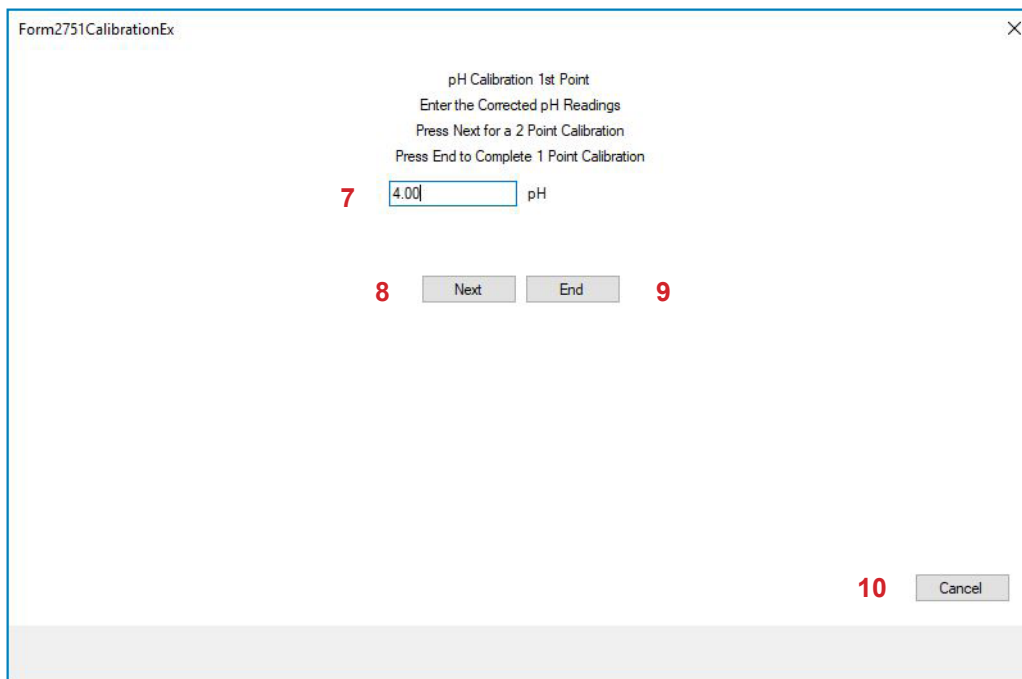
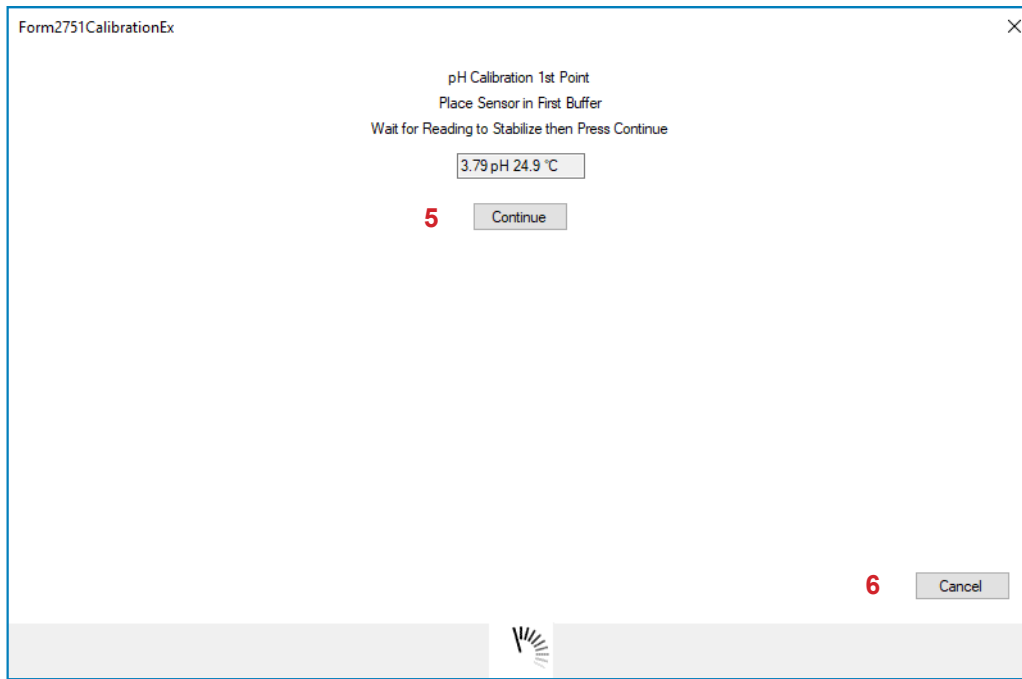
### Temperature Calibration settings:

- |    |  |
|----|--|
| 11 | Start Calibration - Click to start Temperature Calibration (pH)        |
| 12 | Reset Calibration - Click to reset calibration to Factory Default (pH) |

### Calibration Temperature settings:

- |    |  |
|----|--|
| 13 | Wait for reading to stabilize then Click Continue (pH)                   |
| 14 | To cancel calibration click Cancel and return to Calibration Screen (pH) |
| 15 | Enter Temperature Value  |
| 16 | Click End to complete Temperature Calibration (pH)                       |
| 17 | To cancel calibration click Cancel and return to Calibration Screen (pH) |





Form2751CalibrationEx

Calibration Temperature

Wait for Reading to Stabilize then Press Continue

C

**13**

**14**

Form2751CalibrationEx

Calibration Temperature

Enter the Corrected Temperature Reading

Press End to Complete Calibration

**15**  C

**16**

**17**

## 9900 Operation

Initiating Communication with the 9900:

### 1a Factory Configured 9900 (new or reset):

1. If the display reads "PUSH Enter SELECT SENSOR" the 9900 is ready for communication.
2. Proceed to step 2 below.

### 1b Previously configured 9900:

1. Press and hold **ENTER** for 3 seconds. The display will change to the MENU mode.
2. Press **▲** once. The OPTION menu will flash. Press **ENTER**
3. The CONTRAST setting will be displayed.  
Press **▲** twice (Gen II, III, IV) or press **▲** once (Gen I) to display REMOTE SETUP.
4. Press **▶** to edit REMOTE SETUP. If required, enter the security code.
5. Press **▲** to change the flashing NO to YES. Press **ENTER** to confirm change.
6. REMOTE SETUP should be flashing, indicating the 9900 is ready for communication with the 0252 Tool.

Set Instrument Type:

- |          |  |   |
|----------|--|---|
| <b>2</b> | Select sensor type to be wired to the 9900 from the drop-down menu at the top of the screen. | Flow, pH, ORP, Conductivity, Pressure, Level, Temperature, 4 to 20 mA Input, Salinity |
|----------|--|---|

Application settings:

- |          |   |
|----------|---|
| <b>3</b> | Select the Input, Calibration, Loop, Relay, or Option tabs to choose the desired menu for the selected sensor.  |
| <b>4</b> | Refer to the 9900 manual for details pertaining to specific settings for each sensor type and menu item.<br>Available at <a href="http://www.gfps.com">www.gfps.com</a> . Click Products > Multi-Parameter Instruments > 9900 Transmitter |

Write or Save settings:

- |                              |  |
|------------------------------|--|
| <b>5a</b><br>or<br><b>5b</b> | Click "Write" to copy these settings to the product.   |
|                              | Click "Save" to save these settings to a local computer file for later use.  |
| <b>6</b>                     | To use a saved file (from 5b):<br><ol style="list-style-type: none"> <li>1. Click "Load"</li> <li>2. Navigate to the saved file</li> <li>3. Select "Open"</li> <li>4. Click "Write"</li> <li>5. Click "Read" to confirm</li> </ol> |

When configuration is complete:

- |           |   |
|-----------|---|
| <b>7</b>  | Disconnect power from the 9900.   |
| <b>8</b>  | Disconnect the 0252 Tool from the 9900.                                       |
| <b>9</b>  | Reconnect the sensor or reinstall the Direct Conductivity/Resistivity Module. |
| <b>10</b> | Reconnect Power to the 9900.  |

To configure an additional 9900 Transmitter with the same settings:

- |           |   |
|-----------|---|
| <b>11</b> | Click "Save" to save these settings to a local computer file. |
| <b>12</b> | Wire another 9900 as shown on page 7.                         |
| <b>13</b> | Initiate communication with the 9900 via step 1a or 1b above. |
| <b>14</b> | Load the saved settings via step 6 above.                     |

0252 - [9900 Transmitter]

File Help

**+GF+**

Instrument Type pH **2**

Calibration Input Loop Relay Options Information **3**

Relay 1 Relay 2 Relay 3

Mode Window In

Polarity Normally Open

Source pH

Low Set Point 4.00000 pH

High Set Point 8.00000 pH

Hysteresis 0.50000 pH

Turn On Delay 0.00000 Seconds

2610

2750

2751

9900

**5a** **5b**

Read Write Save Load Default

(General Software Operation, pg. 7)

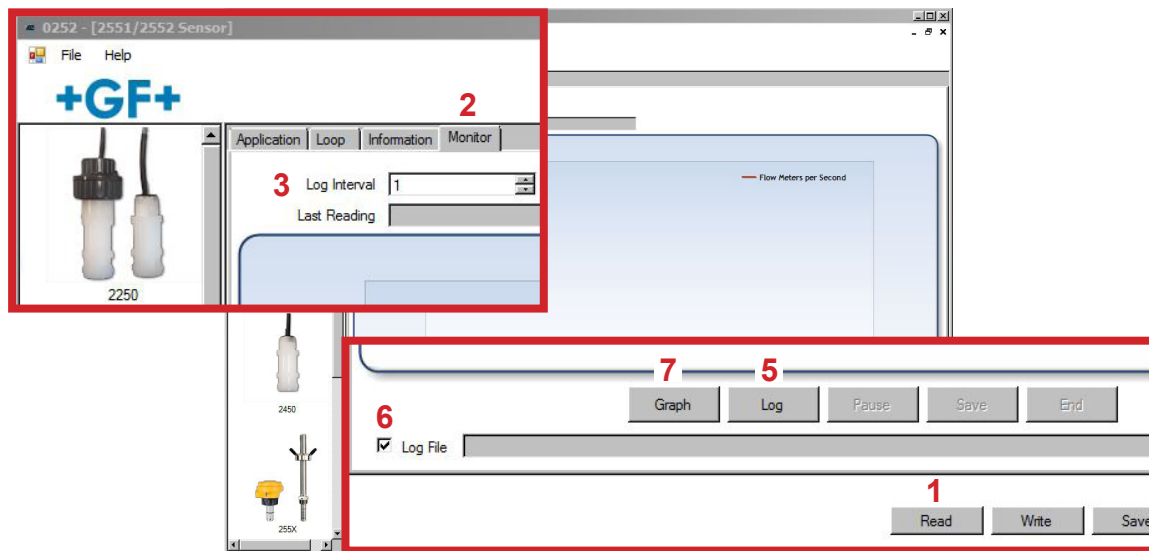
## Datalogger Operation

The 0252 can serve as a field data logger to download data directly into a \*.csv (Comma Separated Value) file.

**NOTE:** The 0252 does NOT have internal memory to store data.

It must be connected to a computer to use the datalog function.

1. Select the sensor type and click on **Read**.
2. Click the **Monitor** tab to open the datalog setup window.
3. Enter the Logging Interval. This value represents the time between log records. The minimum interval is 1 second, and the maximum interval is 86400 seconds (24 hours).  
**Example: If the Log Interval is set to 60 seconds, the 0252 will record the temperature once every minute.**
4. The 0252 saves data files in \*.csv format. The maximum number of records allowed for this type of file is 65535 records. **If the logging interval is 60 seconds = 1092 hours of continuous recorded data.**
5. Click **Log** and enter the file name for the 0252 to store the recorded data and click Save.
6. Click **Log File** check box to enable logging. If you do not wish to save the data, skip to step 7.
7. Click **Graph** to start monitoring the sensor.



## Ordering Information

<b>Mfr. Part No.</b>	<b>Code</b>	<b>Description</b>
3-0252	159 001 808	0252 Configuration Tool

### **Replacement Parts**

6682-3004	159 001 725	Replacement 9900 Terminal Block Plug
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