



# Quick Start

## Vibration Monitoring Solution

SV88/SV89-KIT



# Quick Start (en)

## INTRODUCTION

This SV88/SV89 kit consists of a gateway (GW66) and one or more vibration sensors that you can configure and control using a PC and/or a mobile device.

The GW66 is first used as a local stand-alone 2.4 GHz network for configuring your system. The GW66 is then connected to your network, either through Wi-Fi or Ethernet, for controlling your system. A standard web browser is used to access the GW66 user interface.

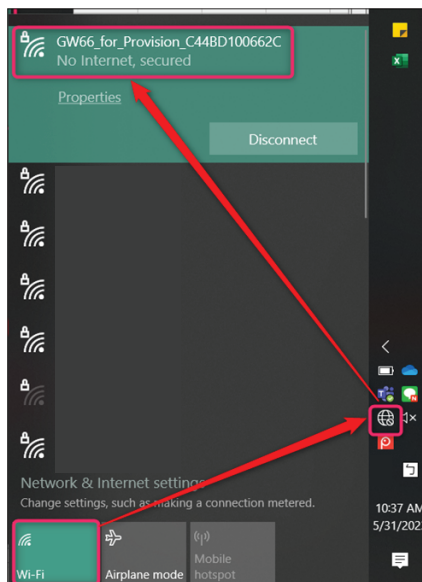
This Quick Start is intended as a brief overview of the product, please download the user manual from the FLIR support site for complete instructions.

## POWER THE GW66

The GW66 is powered either by connecting an Ethernet cable to the GW66 LAN 1 port or using the optional 12 V AC adaptor. The GW66 power LED blinks while powering, and glows steady when fully powered.

## GW66 LOCAL NETWORK

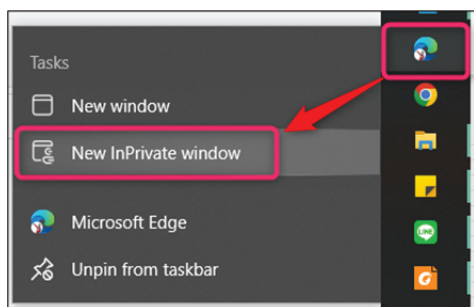
When the GW66 is powered, it will appear on the list of available networks on your PC or mobile device, as shown below.



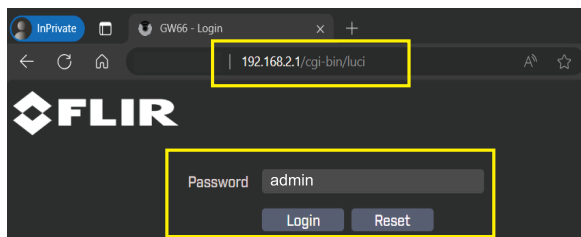
Click on the network named '**GW66 for Provision**', and enter the default password (**FLIRPROV**) when prompted. When the connection is successful, the 2.4 GHz LED will blink intermittently as data are transferred.

## WEB BROWSER USER INTERFACE

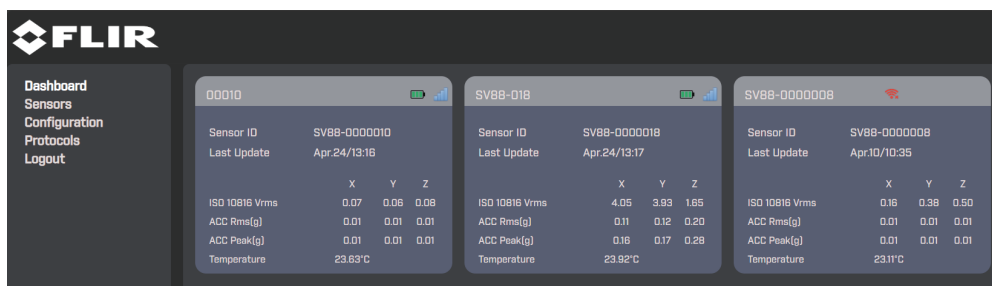
When connected to the GW66 network, open a web browser (Microsoft Edge is recommended). Right-click on the browser icon and select the '**New InPrivate Window**' option, as shown below.



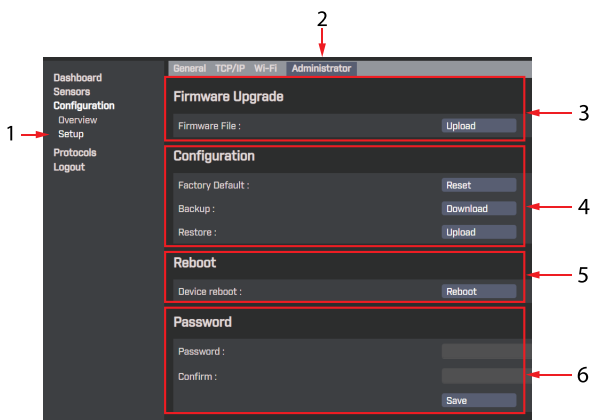
Type **192.168.2.1** in the browser address bar, as shown below. Enter user-name and password (**admin** for both), and then click '**Login**'.



When successfully connected to the network, the dashboard, shown below, will appear in your browser.



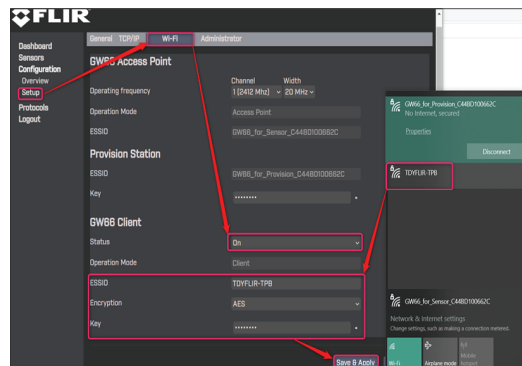
As shown below, select **Setup** (1), then **Administrator** (2), to upgrade firmware (3), reset to factory default (4), reboot the system (5), or set a new password (6). Other features are explained in the user manual. Firmware update files are available on the FLIR support website.



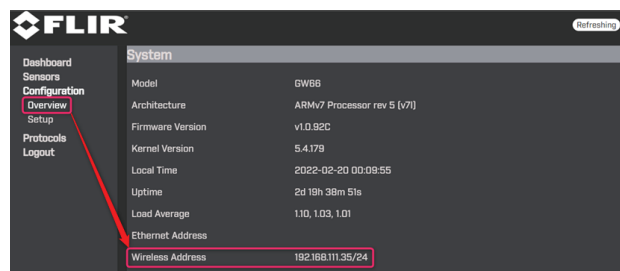
## CONNECT TO YOUR NETWORK (Wi-Fi)

The 5 GHz connection uses the same 'private' web browser window, as explained earlier. Refer to the image below for the following instructions.

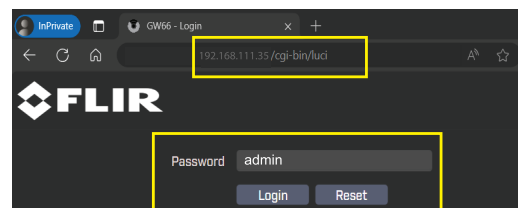
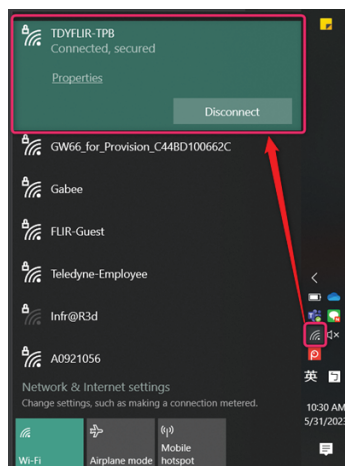
Click on **Configuration > Setup > Wi-Fi** and then, in **GW CLIENT**, enable Wi-Fi, and enter your network password and ESSID (network name). Click **SAVE & APPLY** when done. If connection is successful, the 5 GHz LED will blink.



The floating IP address, assigned by the network, will be shown in the browser.



After saving and applying the Wi-Fi settings, reconnect Wi-Fi to the assigned SSID and log in again with the assigned floating IP address (**192.168.111.35**).



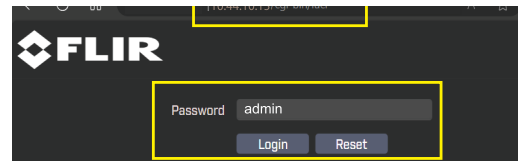
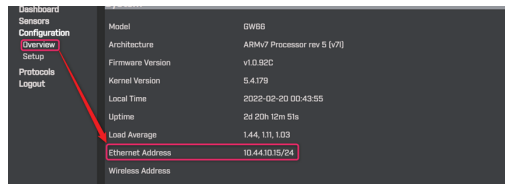
## CONNECT TO YOUR NETWORK (ETHERNET)

In the Wi-Fi window, per the previous section, set Wi-Fi to OFF and then click **Save & Apply**. Connecting via Ethernet, with Wi-Fi enabled, will cause conflicts.

Insert the Ethernet cable to the LAN 1 or 2 port as shown below. The LAN LED will blink when the connection is successful. Only the LAN 1 port can be used to power the GW66.



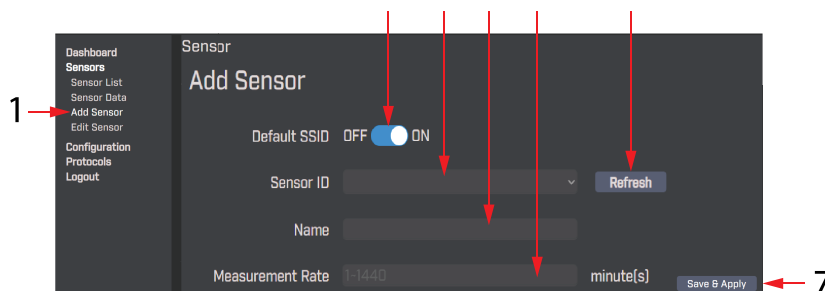
As shown below, type the floating IP address (**10.44.10.15**) and password to connect to your network, using the Ethernet connection.



## ADD SENSORS TO THE NETWORK

Refer to the image below for these steps.

1. Go to the **ADD SENSOR** page and enable **DEFAULT SSID** if using only one GW66. Disable DEFAULT SSID when using two GW66 units, otherwise both units will attempt to connect to the same sensor.
2. Power the sensor, as explained in the next section.
3. Press **F5** to refresh the web page.
4. Find the sensor ID on the list, by serial number.
5. Type a unique sensor name.
6. Set the measurement sampling rate, in minutes.
7. Click **Save & Apply**.



#NAS100159; r. AB/97799/97799; en-US

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## POWER A SENSOR

Remove the sensor set-screw, unscrew and remove the sensor cap, and then install the supplied battery in its holder. The LED lamps on the sensor will blink in one of the following ways.

- New sensors, never paired with a GW66, blink twice in blue.
- Sensors, previously paired with a GW66, blink twice in green. To connect a previously paired sensor with a new GW66, you must first reset the sensor. To do so, press and hold the reset button at the top of the sensor for 10 seconds, until the two LED lamps light green, then blue, and finally red. To reset manually, disconnect and reconnect the battery cable (or remove and reinstall the battery), the sensor will restart and the lamps should then blink twice in blue.

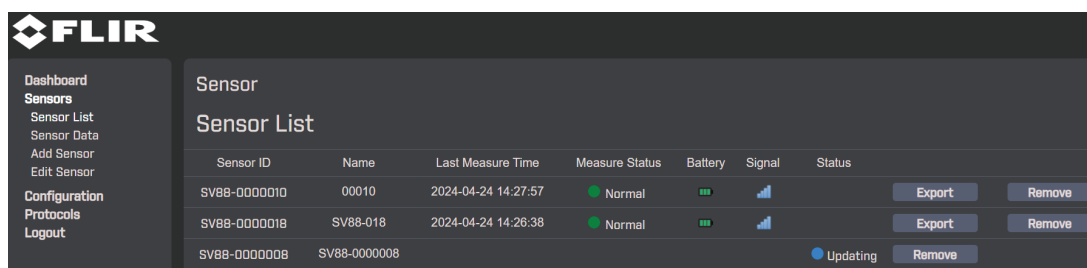
**Table 1** Sensor LED Lamp Activity

|        |                                                                                                                                                                                                                                                                                          |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blue   | The two LED lamps blink twice in blue if the sensor is new and never paired with a GW66.                                                                                                                                                                                                 |
| Green  | The lamps blink twice in green if the sensor was previously paired with a GW66.<br><br>When pairing a sensor that was previously paired (with a different GW66), reset it by pressing the sensor button for 10 seconds. After the reset the sensor will restart and blink twice in blue. |
| Yellow | The lamps blink twice in yellow if sensor fails to send data to the GW66.                                                                                                                                                                                                                |
| Red    | The lamps blink red, at the data logger sample rate, when battery power is < 20%.                                                                                                                                                                                                        |

## SENSOR LIST

Connected sensors appear on the **Sensor List** page, see image below. The status will update at the rate you set.

The sensor LED lamps blink green, twice, when the sensor is sending data. Press **F5** to refresh the **Sensor List** page.



| Sensor       |              |                     |                |         |        |                 |
|--------------|--------------|---------------------|----------------|---------|--------|-----------------|
| Sensor List  |              |                     |                |         |        |                 |
| Sensor ID    | Name         | Last Measure Time   | Measure Status | Battery | Signal | Status          |
| SV88-0000010 | 00010        | 2024-04-24 14:27:57 | Normal         | ■ ■ ■   | ■      | Export Remove   |
| SV88-0000018 | SV88-018     | 2024-04-24 14:26:38 | Normal         | ■ ■ ■   | ■      | Export Remove   |
| SV88-0000008 | SV88-0000008 |                     |                |         |        | Updating Remove |

## SENSOR DATA

There are seven (7) varieties of sensor data, shown below. Refer to the User Manual for complete information.

|                                                                                                                                              |                    |       |      |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|------|
| <b>Dashboard</b><br><b>Sensors</b><br>Sensor List<br>Sensor Data<br>Add Sensor<br>Edit Sensor<br><b>Configuration</b><br>Protocols<br>Logout | Acc. RMS (g)       | 0.01  | 0.01 |
|                                                                                                                                              | Acc. Peak (g)      | 0.01  | 0.01 |
|                                                                                                                                              | Crest Factor       | 4.17  | 3.97 |
|                                                                                                                                              | Kurtosis           | 0.03  | 0.00 |
|                                                                                                                                              | Skewness           | -0.01 | 0.02 |
|                                                                                                                                              | Standard Deviation | 0.01  | 0.01 |
|                                                                                                                                              | Temperature(°C)    | 33.88 |      |
|                                                                                                                                              |                    |       |      |

## SENSOR EDIT WINDOW

**Edit Sensor**

ID: SV88-0101088

Name: Test188-1

Measurement Rate: 1 minute(s)

Alarm

Velocity (mm/s): none Alarm

Measure: X Y Z

Velocity (mm/s): 4.8 71

g RMS(g): 0 0 0 0 0 0

g Peak(g): 0 0 0 0 0 0

Crest Factor: 0 0 0 0 0 0

Temperature(°C): 0 0

Save & Apply Reset

1. Click **Sensor > Edit Sensor** to open.
2. Select a sensor from the drop-down menu.
3. Rename the sensor.
4. Change the sensor measurement rate.
5. Set the main measurement type for the alarm function.
6. Set the alarm value for each measurement type.
7. Click **Save & Apply**.

## SENSOR DASHBOARD

Use the dashboard, shown below, for monitoring up to ten (10) sensors.

1

2

3

Dashboard

00010

Sensor ID

SV88-0000010

Last Update

Apr.24/13:16

ISO 10816 Vrms

ACC Rms(g)

ACC Peak(g)

Temperature

X

0.07

0.01

0.01

23.63°C

Y

0.06

0.01

0.01

Z

0.08

0.01

0.01

SV88-018

Sensor ID

SV88-0000018

Last Update

Apr.24/13:17

ISO 10816 Vrms

ACC Rms(g)

ACC Peak(g)

Temperature

X

4.05

0.11

0.16

23.92°C

Y

3.93

0.12

0.17

Z

1.65

0.20

0.28

SV88-0000008

Sensor ID

SV88-0000008

Last Update

Apr.10/10:35

ISO 10816 Vrms

ACC Rms(g)

ACC Peak(g)

Temperature

X

0.16

0.01

0.01

23.11°C

Y

0.38

0.01

0.01

Z

0.50

0.01

0.01

1. Select **Dashboard**.
2. View serial number and last update for each sensor.
3. View measurement data for each sensor.

### **GW66 FACTORY DEFAULT**

Long press the recessed **RST** button on the GW66 until the power LED blinks rapidly.

### **Customer Support**

|  |  |
|--|--|
|  |  |
|  |  |

### **Limited 3-Year Warranty**

This product is protected by FLIR's Limited 3-Year Warranty.