

# **NEXSENS X2 Wi-Fi Data Logger User Guide**

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# **NEXSENS X2 Wi-Fi Data Logger User Guide**



IMPORTANT - BEFORE FIELD DEPLOYMENT: Completely configure new X2 systems with sensors and a web connection in a nearby work area. Operate the system for several hours and ensure correct sensor readings. Use this test run to become familiar with the features and functions.

Figure 1: X2 Environmental Data Logger



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## **Overview**

The X2 with integral Wi-Fi includes an embedded Wi-Fi hotspot for smartphone, tablet, or PC connection. Three sensor ports provide industry standard protocols including SDI-12, RS-232, and RS-485. The center port offers direct communication (serial to PC) and power input.

Data is accessed and stored on the WQData LIVE web datacenter. An easy-to-use dashboard and built-in sensor library automatically facilitate setup and configuration.

#### What's Included?

- (1) X2 data logger
- (1) X2 grounding kit
- (3) Sensor port plugs, spare orings
- (1) Power port plug, spare oring
- (1) Oring grease
- (1) Screwdriver with magnet tip
- (1) Quick start guide

# Wi-Fi Specifications

Note: The X2 embedded web does not support 5GHz networks. Connect the X2 Wi-Fi to a 2.4GHz network. Wi-Fi

Communications: 802.11b/g/n (Direct to X2 or Connect X2 to an existing network)

Wi-Fi Range: 250 ft. maximum1 1Range varies based on many factors including obstructions, other wireless signals in the area, elevation change, and more.

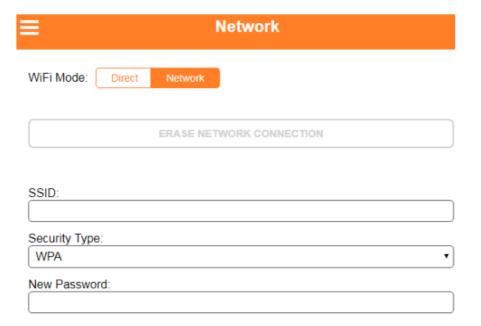
X2 Embedded Wi-Fi user guide link below:

nexsens.com/x2eweb

#### 1. To get started:

- a. Go to WQDataLIVE.com
- **b.** Create a new account or sign into an existing account.
- **c.** Choose or create the project that will contain the data logger by selecting the Projects link from the bottom right footer of the page.
- d. Open the project and go to the ADMIN tab located at the top of the project dashboard and click Settings.
- 2. From there, choose the Project/Site pull down menu and select the site for the new data logger.
  - a. If a site has not been created, select New Site.
- 3. Enter the claim code listed below into the space provided under Assigned Devices.
- 4. Click Add Device.
  - a. The new device should be visible in the Assigned Devices list.
- 5. Remove the center power plug and required outer port plugs (1 for each sensor to connect).
- 6. If ports are labeled, match and connect the sensors with the proper outer ports (8 pin).
  - **a.** If the X2 and sensors were integrated at NexSens, the sensors must be connected to the same port for proper communication.
  - **b.** If connecting a new sensor, use the included USB cable and the CONNECT software to ensure the sensor script is enabled. The article below describes this process.
  - knexsens.com/conncss
- 7. Connect power (5 to 24VDC) to the center port (6 pin).
  - a. Place the X2 Wi-Fi in an area with adequate Wi-Fi connection to the configured network.
- 8. Using a PC or mobile device, connect to the X2's Wi-Fi network.
  - **a.** If the X2 network is not visible, disconnect and re-apply power to the logger and refresh the PC or mobile device's network list.
- 9. Navigate to 192.168.1.1 with a web browser to connect with the X2 embedded web.
  - a. Access the Main Menu (Three horizontal bars at the top left of the interface)
  - b. Go to Settings | Network
- 10. Toggle the Wi-Fi mode to Network and in the spaces provided enter:
  - a. Local network SSID (case sensitive)
  - **b.** Network security settings
  - c. Network password

Figure 2: X2 embedded web network settings.



# 11. Click Save Settings.

a. Reset the Wi-Fi using the magnet swipe.

Figure 3: Successfully saved network settings



- 12. Disconnect from the logger network and allow up to 15 minutes for sensor detection and data acquisition.
  - **a.** At this time the updated X2 Wi-Fi profile is sent to WQData LIVE.
  - **b.** At the next 10-minute transmit interval, refresh WQData LIVE and confirm all sensor parameters are shown and valid sensor readings appear.

# **LED Light Indicators**

Figure 4: X2 LED light indicators located above the X2 logo on the clear top lid.



 Table 1: X2 Wi-Fi Data Logger LED Indicators.

LED Color	1 Second Interv al	3 Second Interv al	5 Second Interv al	3 Blinks Per 5 S econds	Solid
Green	Primary power h eartbeat	Secondary power heartbeat	Backup power h eartbeat	N/A	N/A
Blue	N/A	N/A	Weak/No cell si gnal	Strong radio sig	WQData LIVE s etup successful1
Yellow	N/A	N/A	Data acquisition in progress	N/A	Sensor calibrati on in progress
Red	Significant syste m error	N/A	N/A	N/A	N/A

<sup>1</sup>WQData LIVE setup is automatically done after sensor detection.

2System errors can result from internal sensors detecting high current, humidity, or pressure. These errors can be indicative of a leak or other major problem with the system that requires attention.

For additional information, please reference the X2 Resource Library on the NexSens Knowledge Base. <a href="https://nexsens.com/x2kb">nexsens.com/x2kb</a>

937-426-2703



### **Documents / Resources**



NEXSENS X2 Wi-Fi Data Logger [pdf] User Guide X2 Wi-Fi Data Logger, X2, Wi-Fi Data Logger, Data Logger, Logger

# References

- ■ Configure Sensor Scripts NexSens
- Knowledge Base NexSens
- Knowledge Base NexSens
- WQData LIVE
- ■ NexSens Technology Inc. Better Data. It's what we do

Manuals+,