

FLUKE®

Reliability

Quick Guide and Checklist

Fluke 3563 Sensor/Gateway Installation

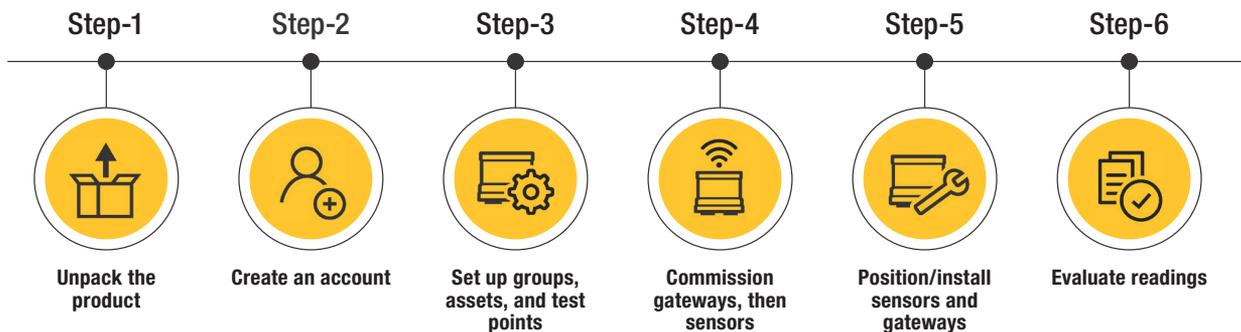


Quick Guide and Checklist

Fluke 3563 Sensor/Gateway Installation

Steps to follow:

- ✓ **Step 1: Unpack the product**
- ✓ **Step 2: Create an account**
- ✓ **Step 3: Set up groups, assets, and test points**
- ✓ **Step 4: Commission gateways, then sensors**
- ✓ **Step 5: Position/install sensors and gateways**
- ✓ **Step 6: Evaluate readings**



Step 1 Unpack the Product

Carefully unpack all items from the box. See below:

Description 16KIT	Quantity
3503 Gateways	2
3563 Analysis Vibration Sensors	16
Software subscriptions enabled for sensors	16
Getting Started Manual	1

Required Accessories: Mounting Plate (Screw or Adhesive) and Adapter key – adhesive mount included; screw mount optional



3503 Wireless Gateways (2)



3563 Analysis Vibration Sensors (16)

Before you install:



Important: For a successful setup, follow the sequence in these instructions. Do not permanently install sensors/gateways until the very end of Step 5.

Watch the setup video to see the system setup and installation:
<http://www.fluke.com/quickstart>



Step 2 Create a new login account

1. Access the LIVE-Asset™ web page by going to live-asset.com or scanning the QR code to the right.
2. Click “Sign up,” and then enter your email address in the provided field on the new page.
3. Click “Register” to proceed. A hint appears on the page indicating that a verification email has been sent to the provided email account.
4. Upon receiving the verification email, follow the link.
5. From the Accelix page, enter information as required.
6. After successfully creating the user account, click Go to Login Page to navigate to the application’s login page.



Scan QR code to go to:
www.live-asset.com

Login

Sign up
Create New Account

User ID

Enter the Registered Email

Password

Enter the Password

Invalid Credentials

Forgot/ Reset Password

Login



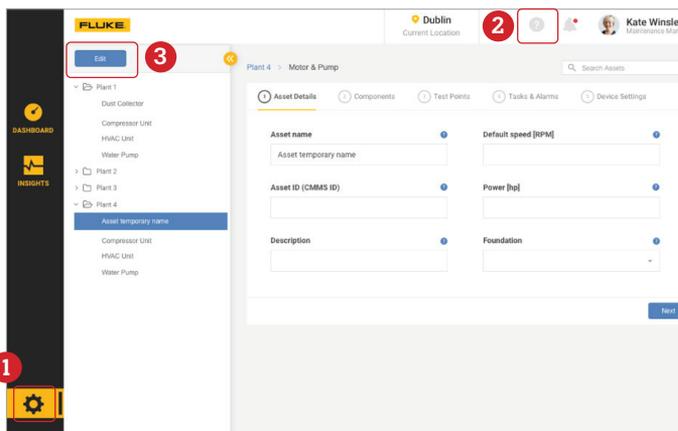
Call: 425-200-0080 for more information.

Step 3 Setup groups, assets, test points

After starting the application, define the required test points for specified assets.

To define the test points:

- ✓ Create Location (e.g., company; location of plant; site or facility)
- ✓ Create Sublocation (if required)
- ✓ Create Asset (machinery)
- ✓ Enter Asset Details
- ✓ Define Components
- ✓ Define Test Points (bearing location)
- ✓ Define Tasks and Alarms
- ✓ Define Device Settings

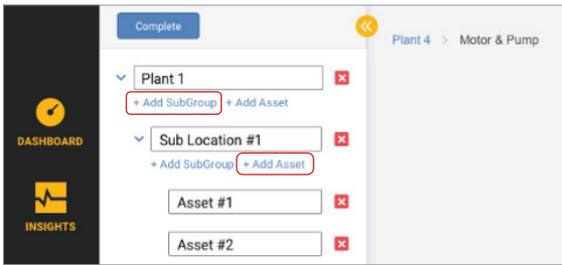


1. To set up the asset from the application,

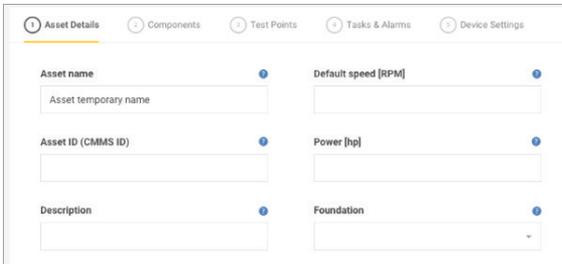
- Click the Configuration icon (1) to access the Configuration module.
- Click ? (2) at any time to access the online help.
- Click the Edit tab (3) to create an Asset hierarchy.



The configuration icon is the module where assets are set up. Detailed information about configuration is in LIVE-Asset™ Portal online help.

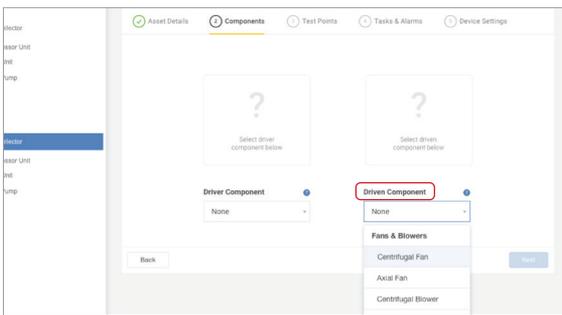


2. Click Add Group and edit the location name. If required, click Add SubGroup and edit the name of the sublocation. See at left.
3. Click Add Asset. The Asset name may be edited only in the Asset Details editor, where other asset properties, including speed, power, ID, and type of foundation, may also be edited. See at left.



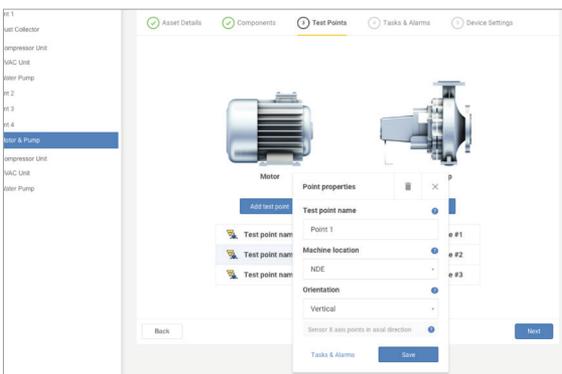
4. Use the Components editor to define the asset components. See at left.

5. In the Test Points editor, click the Add test point tab at the respective components, and then use the drop-down menus to define the required test points:
 - Test point name – edit name
 - Position on the machine – define test point position
 - Orientation – define sensor orientation at the test point



6. Use the Tasks & Alarms editor to configure the vibration trends to be measured and the alarm limits to be set. You can choose to apply recommended alarm limits that are based on verified ISO standards and experience.

 Detailed information about the different trend measurements is available at the software online help, which is accessed by clicking ? on the header.

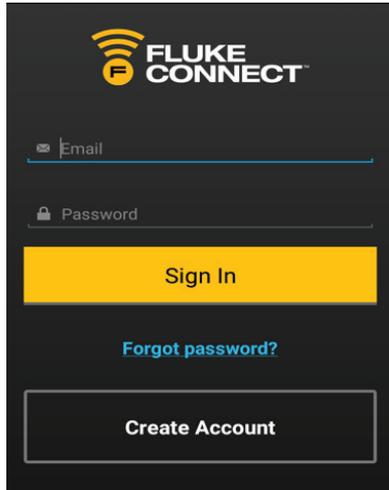


7. Use the Device Settings editor to set the interval of the measurement cycles (Overall Measurement interval) and data transfer cycles (Overall Reporting interval). For detailed information, refer to the LIVE-Asset™ Portal online help.

Step 4 Commissioning gateways. Then sensors

The Fluke Connect app supports the commissioning process. The app may be downloaded from the App Store (for iOS) or Google Play (for Android).

✓ **Note:** Do the commissioning process at a location with a verified internet connection.



Download Fluke Connect

1. Go to the appropriate download platform and download the Fluke Connect app.
2. Install the app on a mobile device.
3. Launch the app and log in.
 - Log in using the email address and password registered in LIVE-Asset™ Portal.

✓ **Note:** The Login screen may be used to request login credentials by tapping **Forgot password?**



Add gateway

1. Power the gateway using either Power over Ethernet (PoE) or the supplied 24 V DC adapter. The power on LED lights up.

STOP **Important:** Complete all steps in this section before you mount the gateway or the sensors.

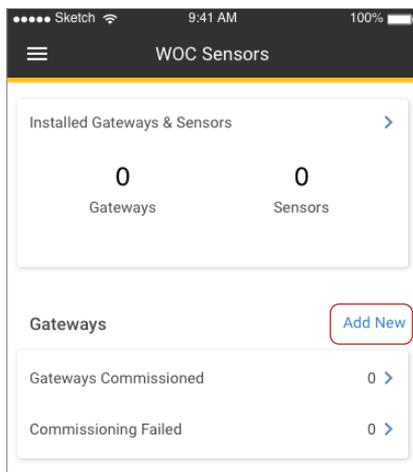
- 1 Ethernet (PoE) communication port
- 2 24 V DC input terminal

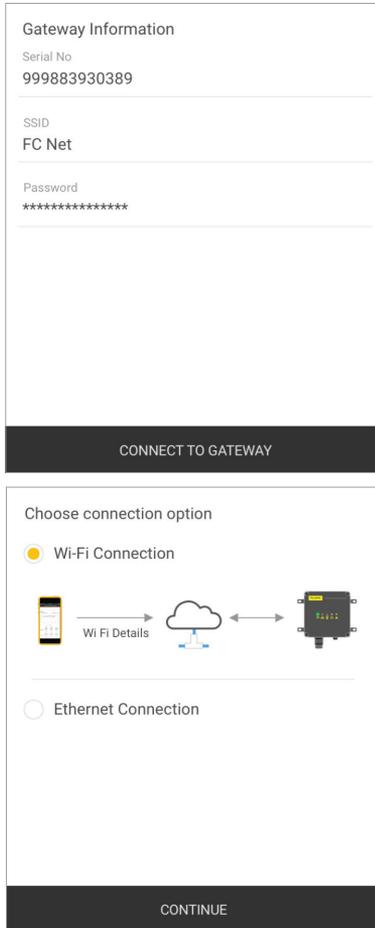
2. From the commissioning Home screen, tap **Add New** to start the gateway commissioning process.

✓ **Note:** The user can only commission sensors only after one gateway is commissioned.

3. In the Setup Overview screen that appears, tap **Start Setup**. The **Add New Gateway** screen opens with the options to scan the gateway QR code or connect the gateway manually.

✓ **Note:** If the manual connection is selected, the gateway information fields must be entered manually. This information is on the gateway housing.





4. Tap **Connect To Gateway** to establish communication between the Fluke Connect app and the gateway. A connection is established between the gateway and the Data Platform.

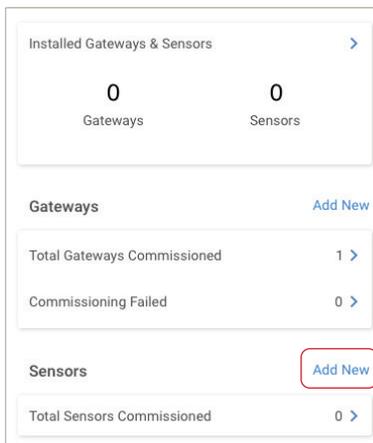


NOTE: If the connection between Fluke Connect and the gateway fails, a hint to retry the process appears. Try to rescan the QR code. If gateway details were entered manually, retry scanning the QR code.

5. The gateway connects to the Data Platform using either a Wi-Fi or Ethernet connection. The Configure Network Details screen offers the options.
6. If using Wi-Fi, select Wi-Fi Connection and tap Continue. If using an Ethernet connection, connect the gateway Ethernet port to the network using an Ethernet cable and tap Continue. Use any saved network or detected network or add a network.
 - **Detected network:** Provide the network credentials, and then tap Update To Gateway to send information to the gateway.
 - **Add a network:** Enter the necessary network details such as SSID (network name), type of security required, and the password. Check the relevant box to save the network to the Fluke account.

Commissioning sensors

With at least one gateway commissioned, the user may now commission sensors. Make sure the sensors are correctly powered. If battery terminals were protected during transport, ensure that the insulation is removed.



1. From the Home screen, tap Add New in the Sensors. Use one of these methods:
 - **Automatically** – Tap the Auto Detect On/Off button to find sensors automatically. All detected sensors will appear on the Sensors screen. (They must be in the vicinity of a powered gateway, which must be commissioned and connected to the Data Platform.)
 - **Manually** – Tap Manually to proceed to Add Manually screen. Tap Add and then enter the sensor serial number in the Serial No. field. When all sensors have been entered, Tap Save. The sensors will appear.
 - **QR Code** – Tap the QR code icon and scan the QR code affixed to the side of the sensor. Once scanned, the sensor is listed on the Sensors screen.
2. Tap Assign at the respective sensor to assign the sensor to a specific test point on an asset. Or tap Done to exit the screen and return to the Home screen.

3563 Vibration Sensor
Please select and assign sensor for any 1 test point

None

Driver Component : Motor 1

Test Point 1

Test Point 2

Driven Component : Fan

Available Sensors (20) 🔍 ☰

WOC755300000000
WOC Sensor
Building 1 > Wing A > Asset 1 > Driver Component : Motor > Test Point 1 ✎

WOC75535267523 Assign
WOC Sensor

WOC75535267511 Assign
WOC Sensor

Assign sensors to asset test points

1. Tap Assign on the Sensors screen. The asset hierarchy in the Web-based software appears.
2. Assign the selected sensor to the desired asset test point.
3. Tap Save to complete the action.

✓ **NOTE:** If no asset hierarchy has been configured within the LIVE-Asset™ Portal, no asset hierarchy will appear when Assign is selected

- On completion, the assigned sensor appears on the sensor list with a breadcrumb showing the test point within the hierarchy (e.g., Building 1 > Wing A > Asset 1 > Driver Component > Motor > Test Point 1).
- To change or unassign a test point, tap the pencil icon (next to the breadcrumb). This returns the user to the individual asset screen.

Step 5 Position/install sensors and gateway

This section guides the user to physically mount gateways and sensors and should be performed on-site.

Important: Temporarily position sensors and gateways as you complete all steps in this section before you permanently mount the sensors or gateways. They may need to be repositioned.

Installed Gateways & Sensors ➤

0 Gateways 0 Sensors

Gateways Add New

Total Gateways Commissioned 1 ➤

Commissioning Failed 0 ➤

Sensors Add New

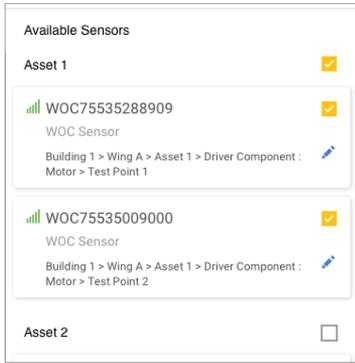
Total Sensors Commissioned 30 ➤

Physical Installation

Gateways & Sensors ➤

Select gateway to install

1. From the Home screen, tap Gateways & Sensors in the Physical Installation frame to select the gateway to be installed. All commissioned gateways appear under Available Gateways.
2. The following actions are available:
 - ✓ Select an active gateway, tap Continue, and position at the desired location.
 - ✓ Select an inactive gateway, tap Connect to be guided through the process of connecting the gateway to the cloud-based Data Platform.
 - ✓ Tap Skip to bypass the gateway installation and proceed directly with sensor installation.

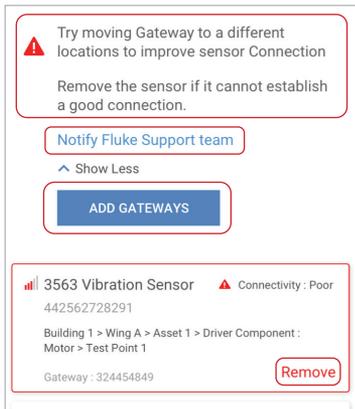


Select sensor to install

1. All commissioned sensors appear in the Select Sensor to Install screen. Select sensors to be installed, then tap Continue and position the sensors at the designated test points.

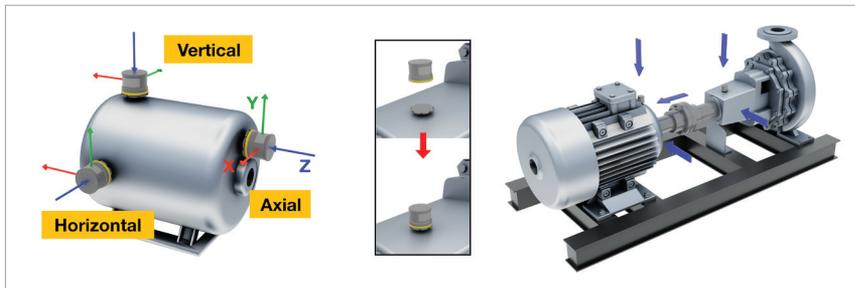
Check gateway and sensor connection

1. From the Instructions screen that appears, tap Continue to check whether the sensors are connected to the gateway.
 - ✓ On-screen hints show if connectivity between the gateway and any sensor fails. If necessary, reposition the gateway.
 - ✓ An additional gateway may be selected for installation by tapping Add Gateways.
 - ✓ The sensor connection check is not finalized until all connection failures are resolved. Sensors that fail to connect to the gateway must be removed.

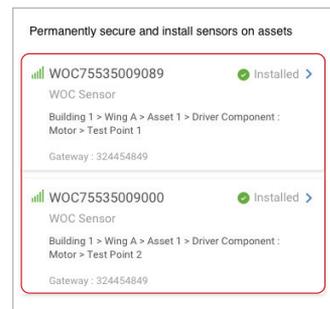
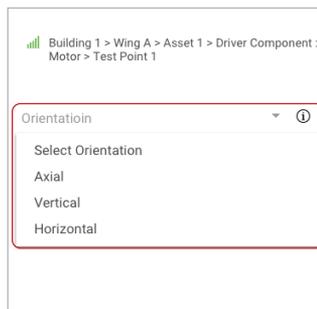
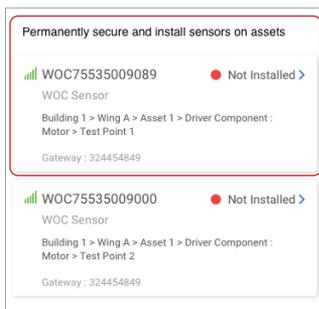


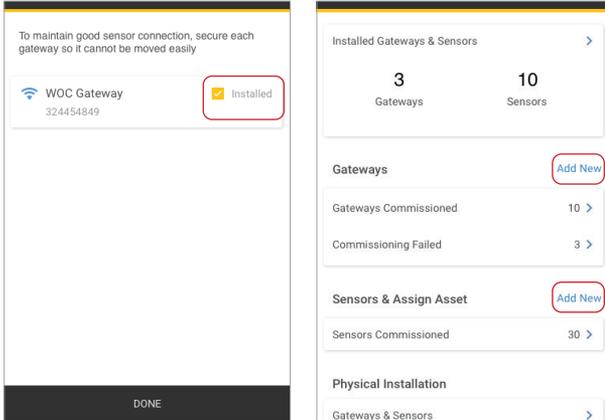
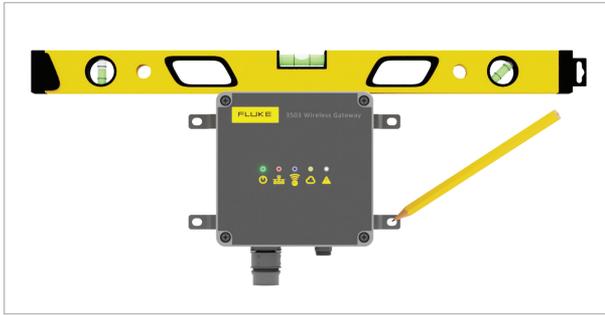
Mount sensor permanently and finish Fluke Connect process

1. **AFTER** connectivity with all sensors has been achieved, tap Continue and mount the sensors permanently at the selected asset test points, as described in the mounting instructions.



2. **AFTER** mounting the sensors permanently, return to the Fluke Connect App to finalize the permanent installation process.



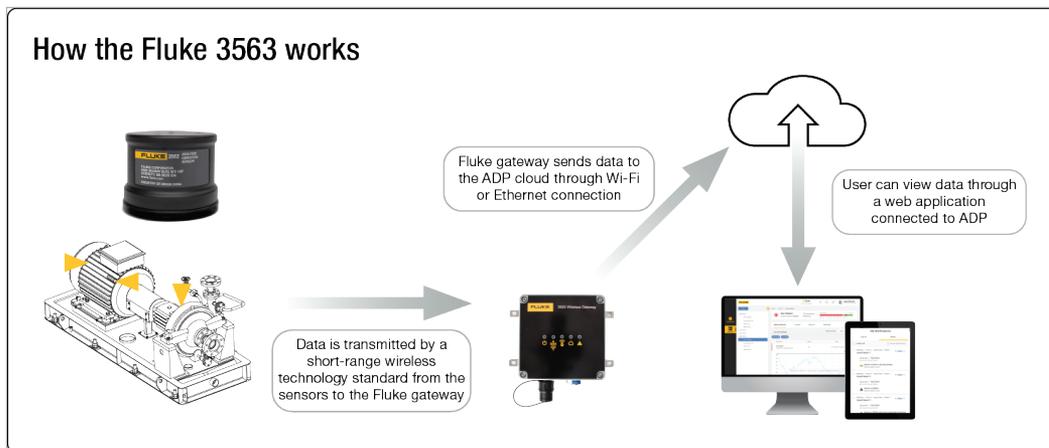


Mount gateways permanently and finish with Fluke Connect

1. **AFTER** confirming connectivity with all sensors, mount the gateways permanently at the determined position as described in the Mounting instructions.
2. **AFTER** mounting the gateway(s) permanently, return to the Fluke Connect app to finalize the permanent installation process. Check the Installed box, then tap Done. Check the number of gateways and sensors installed.

Step 6 Evaluate readings remotely

You are now ready to remotely view vibration trends, alerts, and alarms from your sensors.



Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. 856-810-2700
In Europe +353 507 9741
In UK +44 117 205 0408
Email: support@accelix.com
Web access: <http://www.accelix.com>

©2021 Fluke Corporation. Specifications subject to change without notice. 6/2021 6013901b-en