

# Honeywell Versatilis Transmitter Quick Start Guide(QSG)\_R100.1



## Overview

Honeywell Versatilis Transmitter is a multi-variant sensing platform based on the latest LoRaWAN® protocol communication technology. Its inherently low-power compact design coupled with quick and easy installation and commissioning help customers to deploy them at scale with the lowest CAPEX and negligible OPEX.



## Key features:



Based on the latest LoRaWAN® protocol communication technology for large area coverage.



The built-in battery lasts for years.



Quick and easy installation & commissioning.



Robust, and intrinsically safe. Built-in environmental compensation.



Access real-time and historical data visualization.



Configurable sensor parameters, and data update frequency rate.



Multiple mounting options are available such as Adhesive, Magnetic, and Screw Mount adapters.

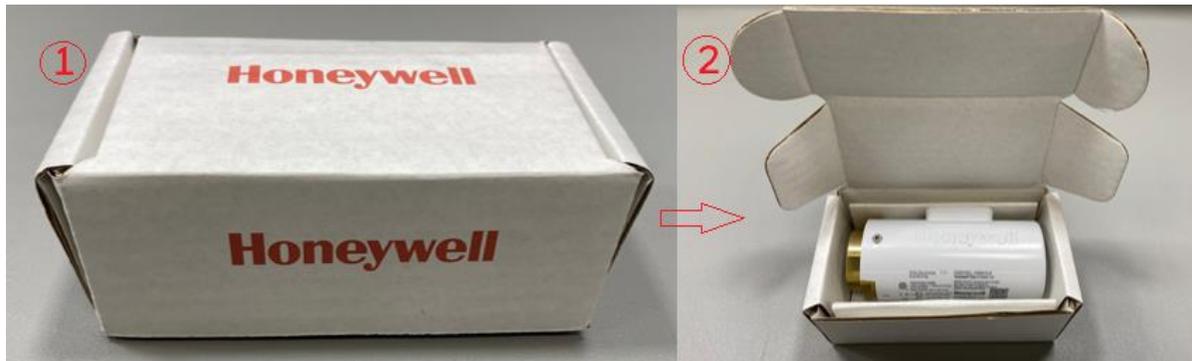
## Specifications:

- Bluetooth Communication: 2.4 GHz, Low Energy 5.0 Communication.
- Battery life: 5 years (with 30 minutes LoRa update rate and 5min sensor measurement interval).
- Battery Voltage: 3.6V DC.
- Operating temperature: -40°C to +80°C (-40°F to +176°F).
- Dimensions (Width x Height): 46 mm (1.81 Inches) x 100 mm (3.93 Inches).

For more information on specifications, see *Honeywell Versatilis Transmitter Technical Specifications (34-VT-03-01)*.

## Unpacking the Honeywell Versatilis Transmitter:

The Honeywell Versatilis Transmitter comes in molded pulp packaging of sustainable recyclable material, sealed with a tamper-proof sticker.



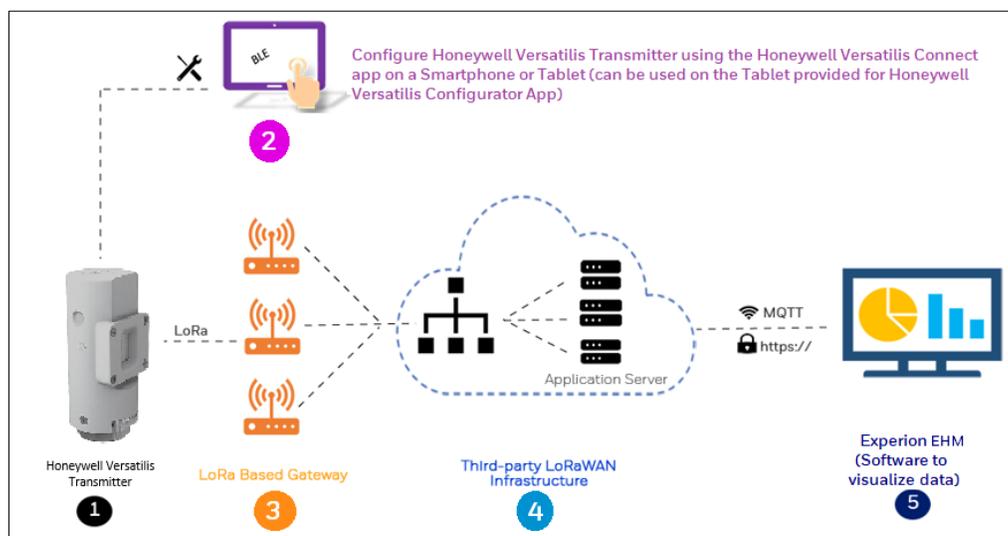
## Mounting the Honeywell Versatilis Transmitter:

The Honeywell Versatilis Transmitter offers multiple mounting options such as Magnetic Mount, Adhesive Mount, and Screw Mount to suit the mounting surface of the target machine, ensure good bonding, and accurate measurement.

**Note:** Users need to select a suitable mounting adapter while placing an order.

## Configure the Honeywell Versatilis Transmitter:

The following figure and table provide information about the complete solution architecture designed and implemented for Honeywell Versatilis Transmitter. This information helps the user understand the various processes involved, right from the configuration of the Honeywell Versatilis Transmitter to access the analytic solutions.



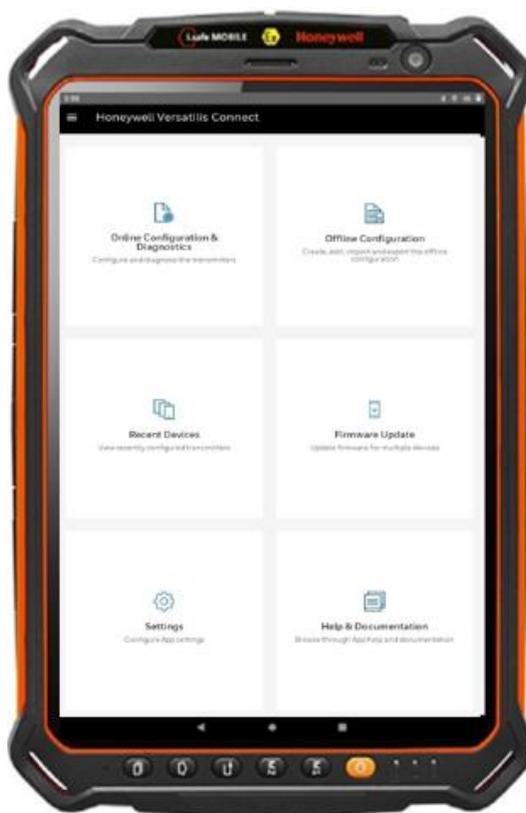
Item	Integration	Description
1	Honeywell Versatilis Transmitter	<p>The Honeywell Versatilis Transmitter measures six parameters on the target machine, which are as follows:</p> <ul style="list-style-type: none"> <li>• Surface Temperature</li> <li>• Ambient Humidity</li> <li>• Ambient Temperature</li> <li>• Ambient Pressure</li> <li>• Vibration</li> <li>• Audio Acoustics</li> </ul> <p>For more details, see the <i>Configuration</i> section in the <i>Honeywell Versatilis Transmitter Installation and User's Guide (34-VT-25-01)</i>.</p>
2	Honeywell Versatilis Connect app	<p>The Honeywell Versatilis Connect App enables users to connect to the Honeywell Versatilis Transmitter through BLE using a tablet, or smartphone. It helps users to configure the sensor parameters to track the health of target equipment which is installed/ fitted in the process industries. See the <i>Installation of the Honeywell Versatilis Connect app</i>. For more information on configuring sensor parameters, see the <i>Configuration</i> section in <i>Honeywell Versatilis Connect App User's Guide (34-VT-25-03)</i>.</p>
3	LoRa Gateway	<p>Configure the LoRa Gateway in packet forwarder mode to direct the LoRaWAN packets to the LoRaWAN server by configuring the LoRaWAN IP address and server settings. For more information on how to set up the LoRa Gateway, refer to the respective manufacturer's product documentation.</p>
4	LoRaWAN Infrastructure	<p>The payload formatter within the third-party LoRaWAN Infrastructure formats the incoming data from LoRa gateways and securely transfers it through the MQTT protocol to the Experion EHM.</p> <ol style="list-style-type: none"> <li>a. Configure the LoRaWAN provider (e.g. TTN, Chirpstack, etc.) to start receiving data from the gateway and exposing it over MQTT.</li> <li>b. Configure gateway in LoRaWAN server.</li> <li>c. Configure and activate the device based on the selected activation mode and specify the RX1 delay &amp; RX2 frequency as xxx MHz based on the channel plan.</li> <li>d. Apply the payload decoder.</li> <li>e. After successfully configuring the device, ensure the data is received as per the JSON format.</li> </ol>
5	Honeywell Experion EHM	<p>The Honeywell Experion EHM software provides the platform to visualize the transmitted sensor data and provide useful insights to monitor and track the health of the target machines.</p> <p>For more details, see the <i>Honeywell Versatilis Transmitter Experion EHM Configuration and User's Guide (34-VT-25-05)</i>.</p>

## **Installation of the Honeywell Versatilis Connect app**

**Note:** Enable the location permission on your Windows/Android/iOS based smartphone/tablet before installing the app.

<b>Android</b>	<b>Windows</b>	<b>iOS</b>
<ol style="list-style-type: none"><li>1. Open the <b>Google Play Store</b> app, and search for <b>Honeywell Versatilis Connect</b>. Or Click the link: <a href="#">Honeywell Versatilis Connect Android app</a>.</li><li>2. Tap <b>Install</b>.</li><li>3. After successful installation, tap <b>Open</b>.</li><li>4. A message to access the device's camera appears, tap <b>While using the app</b>.</li></ol>	<ol style="list-style-type: none"><li>1. Open the <b>Microsoft Store</b> app, and search for <b>Honeywell Versatilis Connect</b>. Or Click the link: <a href="#">Honeywell Versatilis Connect Windows app</a>.</li><li>2. Tap <b>Get</b>.</li><li>3. After successful installation, tap <b>Open</b>.</li></ol>	<ol style="list-style-type: none"><li>1. Open the <b>App Store</b> app, and search for <b>Honeywell Versatilis Connect</b>. Or Click the link: <a href="#">Honeywell Versatilis Connect iOS app</a>.</li><li>2. Tap <b>Get</b>.</li><li>3. After successful installation, tap <b>Open</b>.</li><li>4. A message stating <b>Honeywell Versatilis Connect would like to access the camera</b> appears, tap <b>OK</b>.</li></ol>

The Honeywell Versatilis Connect app opens with a dashboard screen.



**Note:** The Honeywell Versatilis Connect app can also be installed on the tablet provided for the Honeywell Versatilis Configurator app.

Users can also download and install the Honeywell Versatilis Connect app from the HPS web:

1. Click the link: [Honeywell Versatilis Connect](#).
2. On the Honeywell Versatilis Transmitter product page, click the **Support** tab.
3. Click the **Honeywell Versatilis Connect App Software Download Datasheet**, the file will be downloaded.

Follow the instructions provided in the Software Download Datasheet to download and install the Honeywell Versatilis Connect app for the respective platform.

## Pairing the Honeywell Versatilis Transmitter

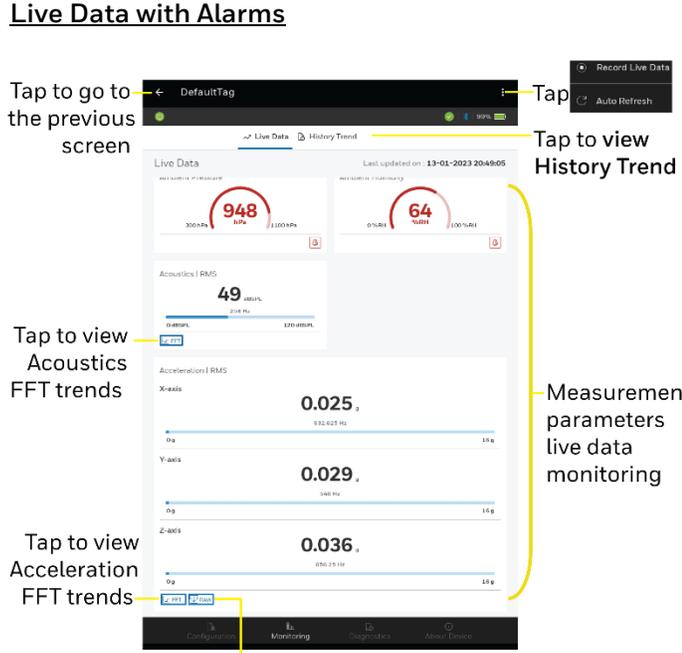
Follow the below procedure to pair the transmitter through Bluetooth or QR scan on your tablet/smartphone:

Bluetooth scan	QR code scan
<p><b>Prerequisite:</b> Before you open the Honeywell Versatilis Connect app, turn ON the Bluetooth on your Windows/Android/iOS based smartphone/tablet.</p> <ol style="list-style-type: none"> <li>1. Tap the Honeywell Versatilis Connect app.</li> <li>2. The homepage appears, tap <b>Online Configuration and Diagnostics</b>.</li> <li>3. A pop-up appears requesting location access, select <b>WHILE USING THE APP</b>.</li> <li>4. The <b>Connect to a device</b> screen appears, tap on the required Honeywell Versatilis Transmitter you want to connect from the <b>Available Devices</b> list.</li> <li>5. A confirmation pop-up appears, tap Yes. The app initiates the pairing process.</li> <li>6. A page appears requesting to enter the passcode. Type in the preconfigured default six-digit passcode "110420".</li> </ol>	<ol style="list-style-type: none"> <li>1. Tap the Honeywell Versatilis Connect app.</li> <li>2. The homepage appears, tap <b>Online Configuration and Diagnostics</b>.</li> <li>3. A pop-up appears requesting you to allow the app to take pictures and record video, select <b>WHILE USING THE APP</b>.</li> <li>4. The <b>Connect to a device</b> screen appears, tap the  (QR Code scan) icon.</li> <li>5. The QR code scan screen appears, scan the QR code printed on the intended device which you want to pair.</li> <li>6. A success page appears with the serial number of the device after successful validation of the QR code. You can tap <b>RESCAN</b> to scan another device; else tap <b>CONNECT</b> to proceed further with connecting the intended device.</li> </ol>
<p>Upon successful connection, the default configuration page, i.e. <b>Asset Details</b> screen appears. For more information on configuration, see the <i>Configuration</i> section in <i>Honeywell Versatilis Connect app User's Guide (34-VT-25-03)</i>.</p>	

## Monitoring in Honeywell Versatilis Connect app:

The Honeywell Versatilis Connect app allows users to monitor the live data and history trends of the configured sensor parameters.

### Live Data with Alarms



Tap to go to the previous screen

Tap to view History Trend

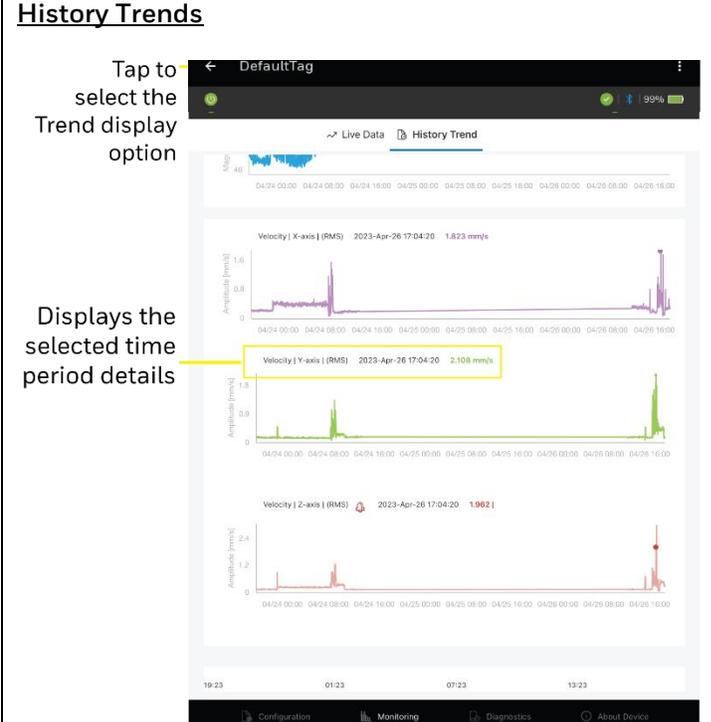
Tap to view Acoustics FFT trends

Tap to view Acceleration FFT trends

Tap to download Acceleration RAW data

Measurement parameters live data monitoring

### History Trends



Tap to select the Trend display option

Displays the selected time period details

## Experion EHM Solution

The Honeywell Experion EHM software provides the platform to visualize the transmitted sensor data and provides useful trends to monitor and track the health of the target machines.

- Plug and play virtual platform, compatible with VMWare Workstation hypervisor, ensuring minimal infrastructure cost.
- Deployed as Experion PKS, Honeywell hosted solution.
- Connects to Honeywell Versatilis Transmitter over MQTT through LoRa Gateway.

## Setting up Experion EHM

- A physical PC with the below-mentioned specs:
  - Operating system: Windows 10 Enterprise 2019 LTSC.
  - Storage space: 500 GB SSD/HDD.
  - RAM: 32GB.
  - Processor: Single or multiple Intel 2.5GHz, Octa Core or greater.
  - Networking: 1GBPS or 100 MBPS Ethernet
- A licensed VMWare Workstation Pro 17 or later software installed on the PC.

## Supported Topologies

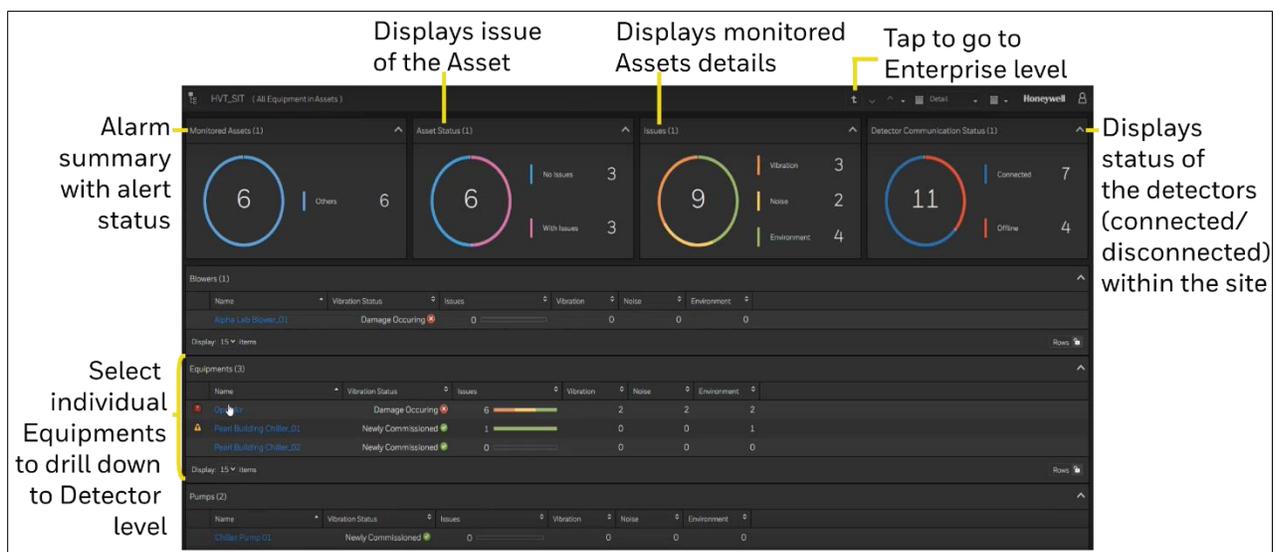
The Experion EHM solution supported deployment options:

- a. Single PC deployment
- b. Dual PC deployment.

For information on specifications and topologies, see *Honeywell Experion EHM Configuration and User's guide (34-VT-25-04)*.

## Monitoring in Experion EHM

- a. **Birds Eye view:** Providing an enterprise-wide summary of equipment, covering equipment level summary, alarms summary, and drill down of detected issues.



**b. Drilldown Device:** Device measurement details, summary trends, and alarms.

Tap to go to the home screen

Tap to go to Site level

Tap to view Summary trends

Tap to view Alarms & Trends

Displays device measurement details

Drill down to view individual parameter values

**c. Alarms and Trends of measuring parameters**

Tap to select individual parameters trends

Tap to see configured parameters in units or %

Tap to select the trends display interval

Tap to set the interval

Tap to go to Asset level

Tap to view Details of parameters

Measurement parameters

Displays accepted alarms

Detected issues with alarms. Active state alarms are sectioned in Identified

Repeated and unwanted alarms can be moved to Shelved