Honeywell

Versatilis Transmitter
Quick Start Guide

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.
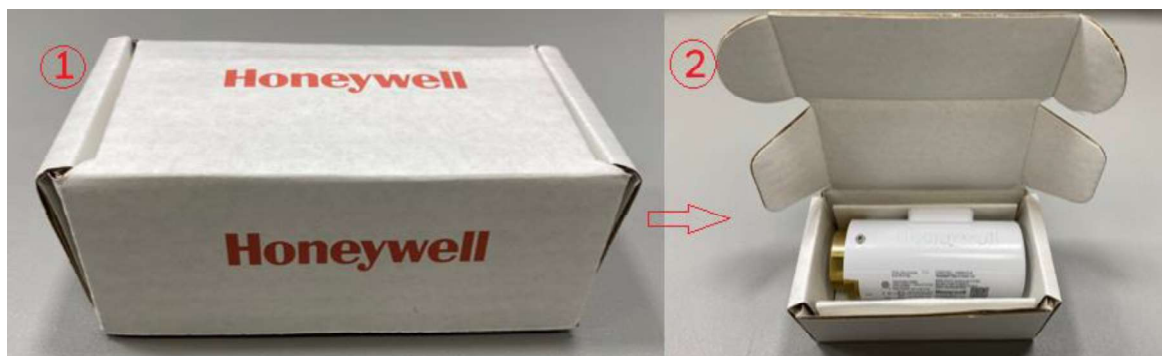
Measuring Parameters:

The Honeywell Versatilis Transmitter measures six parameters on the target machine Surface Temperature, Ambient Temperature, Ambient Pressure, Ambient Humidity, Acoustics, and Vibration.

Specifications:

Parameters	Description
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	W: 46 mm (1.81 Inches) x H: 100 mm (3.93 Inches)

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 to ensure good bonding and accurate measurement.

Note: Users need to select a suitable mounting adapter while placing an order. Only the 'Screw Mount' adapter comes pre-fitted with the Honeywell Versatilis Transmitter from the factory.

Configure the Honeywell Versatilis Transmitter:

Honeywell Versatilis Transmitter can be configured using the Honeywell Versatilis Connect app.

For more details on Mounting and Configuring the Honeywell Versatilis Transmitter, see *Honeywell Versatilis Transmitter Installation and User's Guide and Honeywell Versatilis Connect app User's guide.*

Install the Honeywell Versatilis Connect app:

Android	Windows	iOS
1. Open the **Google Play Store** app, and search for Honeywell Versatilis Connect. 2. Tap **Install**. 3. Tap **Open**. In the permission dialog, tap **Allow**.	1. Open the **Microsoft Store** app, and search for Honeywell Versatilis Connect. 2. Tap **Get** to install. 3. Tap **Open**.	1. Open the **App Store app**, and search for Honeywell Versatilis Connect. 2. Tap **Get** to install. 3. Tap **Open**.
The Honeywell Versatilis Connect app opens with a dashboard screen.		

Pairing the Honeywell Versatilis Transmitter:

Bluetooth scan/QR code scan:

Note: Make sure the Bluetooth on the Tablet/Smartphone is turned ON.

- Open the app > on the homepage, tap **Online Configuration & Diagnostics** > Connect to a device from the available list of devices.

For more information on configuration, see *Online Configuration* in **Honeywell Versatilis Connect app User's Guide**.

Configure LoRa Gateway:

LoRa Gateways acts as a communication bridge between Honeywell Versatilis Transmitter and the LoRaWAN application.
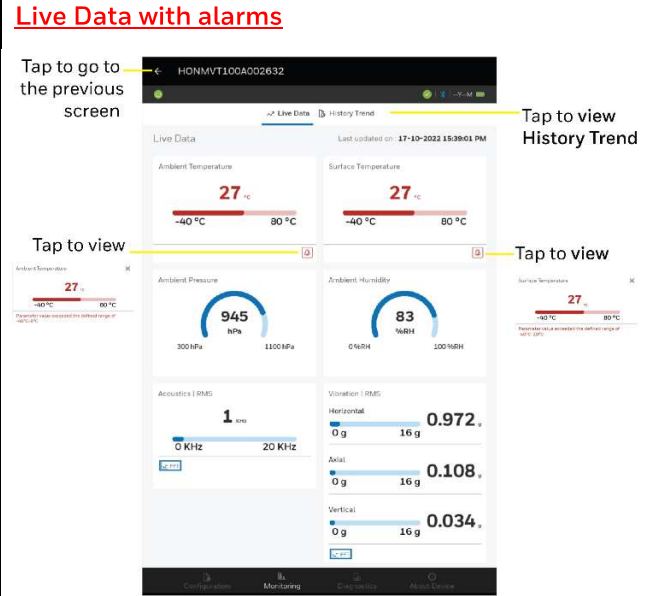
Configure LoRaWAN:

LoRaWAN is a Low Power, Wide Area (LPWA) networking protocol based on the LoRa radio modulation technique. Here, it wirelessly connects the battery-operated Honeywell Versatilis Transmitter to the internet and manages communication between Honeywell Versatilis Transmitter and network gateways.

NOTE: There are many LoRa-based Gateway manufacturers and LoRa network providers in the market, choose the qualified providers. For more information on how to set up the LoRa Gateway, and LoRaWAN, refer to the respective manufacturer's product documentation.
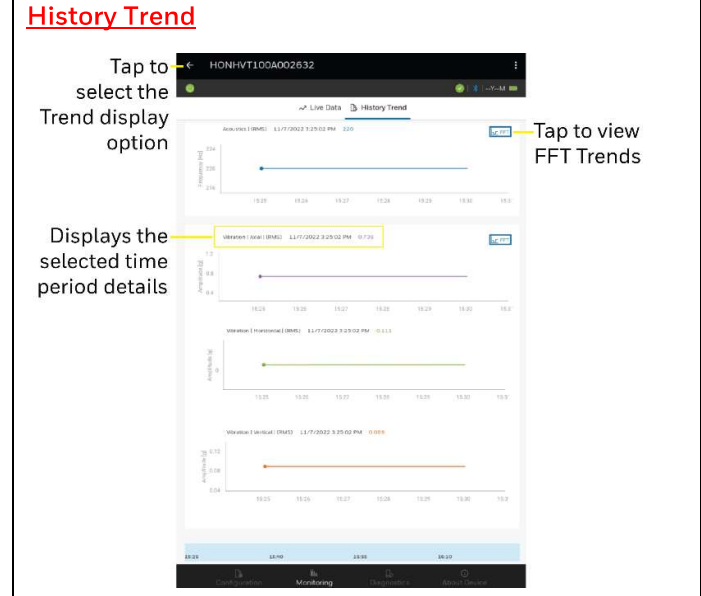
Monitoring in Honeywell Versatilis Connect app:

The Honeywell Versatilis Connect app allows users to determine the current state of the equipment. Users can choose the parameters to monitor the live data.

Live Data with alarms	History Trend

Experion EHM Solution

The Honeywell Experion EHM software provides the platform to visualize the transmitted sensor data and provide 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

Prerequisites:

- A physical PC. For information on specifications, see *Honeywell Experion EHM Configuration and User's guide, 34-VT-25-04.*
- A licensed VMWare Workstation Pro 17 or later software installed on the PC.

Perform the below instructions to access the VM created for Experion EHM:

1. Insert the Pen drive (supplied along with the Honeywell Versatilis Transmitter) into your local machine.
2. Copy the TAR file from your pen drive to your local machine.
3. On your local machine, right-click the **TAR file > Extract**.
4. A pop-up window prompts you to specify the decryption key provided to you by Honeywell in a printed format.
   After validating the specified decryption key, the extraction process of the TAR file begins. After successful extraction, the TAR file opens up a new instance of VM including the preinstalled Experion EHM setup. The required licensing model auto applies as chosen while initiating an order from the factory.

Setting up LoRaWAN on VM:

Prerequisites:

- A physical PC with Intel Core i5-6500CPU @3.2GHzx4, 8 GB memory, 500 GB disk capacity, 64-bit Ubuntu 22.04.1 LTS operating system.
- A licensed VMWare Workstation Pro installed on the PC.
- A licensed LoRa network service or Enterprise version from the LoRaWAN service provider of your choice.
- A VM created with Ubuntu OS (Linux).
- Network server configuration of the LoRaWAN service provider on Ubuntu.

For more information, see *Honeywell Experion EHM Configuration and User's guide*.

Configure MQTT communication:

In the **Configuration Studio**, under **SCADA Control** build an MQTT **Channel** for a site and configure the Honeywell Versatilis devices under specific assets involving Enterprise > Site> Area > Process cell > Asset > Device.

For more information on configuration, 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.

c. Alarms and Trends of measuring parameters

For more information on Honeywell Versatilis Transmitters,
visit https://process.honeywell.com/
Or contact your Honeywell Account Manager

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