

Honeywell VersatilisTM Connect App Release 100.1

User's Guide

34-VT-25-03 *May 2023*

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CHAPTER

ABOUT THIS GUIDE

This guide provides information to assist you in the configuration and user management of the Honeywell Experion EHM.

Revision history

Revision	Date	Description
A	February 2023	The initial release of the document for R100.
В	May 2023	Bulk FOTA update feature added.App supports iOS platform.

Related documents

Document Name	Document Number
Honeywell Versatilis Transmitter Installation and User's Guide	34-VT-25-01
Honeywell Versatilis Signal Scout Installation and User's Guide	34-VT-25-02
Honeywell Versatilis Transmitter Technical Specification	34-VT-03-01
Honeywell Versatilis Signal Scout Technical Specification	34-VT-03-02
Experion EHM Configuration and User's Guide	34-VT-25-04

Terms and abbreviations

Terms	Definitions
BLE	Bluetooth [®] Low Energy
FFT	Fast Fourier Transform
FOTA	Firmware Over The Air
iOS	iPhone Operating System
lloT	Industrial Internet of Things
LoRa	"Long Range" Radio Communication Technique
LPWA	"Low Power, Wide Area" networking protocol
UI	User Interface
UOM	Unit of Measure

CHAPTER

2

OVERVIEW

NOTE: The word "device" referred in the UI of Honeywell Versatilis Connect app and thus used in this manual denotes to the Honeywell Versatilis Transmitter or Honeywell Versatilis Signal Scout.

The Honeywell Versatilis Connect app provides the flexibility and scalability to perform the complete device configuration, simplifies maintenance tasks, and thereby saves time.

The Honeywell Versatilis Connect app allows users to:

- Configure and maintain the devices through online mode.
- Configuration of devices through importing offline templates.
- Live data monitoring.
- Upgrade the device to the latest available firmware and supports bulk firmware update.
- Download device or app log for diagnosing issues.
- Tracks the device condition, the LoRa and BLE communication status.

Specifications

The specifications of the Honeywell Versatilis Connect app are as follows:

Table 2-1: Specifications of Honeywell Connect app

Tablet/ Smartphone Specifications	Android	Windows	iOS
Operating system	Android 10 or higher versions	Windows 10 or higher versions	iOS 15 or higher versions
Processor and Speed	ARC V7 or V8, 1.6GHz or	64-bit, 1.6GHz or faster	-

Tablet/ Smartphone Specifications	Android	Windows	iOS
	faster		
RAM	Minimum: 4GB Recommended: 8GB	Minimum: 8GB	-
Storage space	Higher than 64GB is recommended	Higher than 64GB is recommended	Higher than 64GB is recommended

NOTE: The Honeywell Versatilis Connect app can also be installed in the tablet provided for Honeywell Versatilis Configurator app, complying with the above mentioned specifications.

CHAPTER

3

GETTING STARTED

For more information on how to install Honeywell Versatilis Connect app on you Smartphone/Tablet supporting Android/Windows/iOS based platforms, see *Honeywell Versatilis Transmitter Installation and User's Guide, 34-VT-25-01 or Honeywell Versatilis Signal Scout Installation and User's Guide, 34-VT-25-02.*

Prerequisite: Before you open the Honeywell Versatilis Connect app, turn ON the Bluetooth on your Windows/Android/iOS based Smartphone/Tablet.

Turn ON the Bluetooth

Table 3-1: Turning ON the Bluetooth

Windows	Android	iOS
 In the Windows tablet: 1. Tap the Start button, then select Settings> Devices> Bluetooth & other devices. 2. Enable the Bluetooth toggle switch to turn it ON. 	 In the Android tablet: 1. On the Home screen, go to Menu> Settings> Bluetooth. 2. Enable the Bluetooth toggle switch to turn it on. 3. Tap the check box to make it visible to other devices. A list of available devices 	In the iOS tablet: 1. Go to Settings> Bluetooth. 2. Enable the Bluetooth toggle switch to turn it on.
	displays.	

To enable quick Bluetooth Scan for Windows Tablet:

NOTE: Make sure the **Communicate with unpaired devices** is turned **ON** under the **Control Panel** > **Privacy**> **Other devices** screen of your Tablet/Smartphone.

命 Home	Other devices
Find a setting	> *Some of these settings are hidden or managed by your organization.
Driveev	Communicate with unpaired devices
rivacy	Let your apps automatically share and sync info with wireless devices that don't explicitly pair with your PC, tablet, or phone
App permissions	Off

Follow the below procedure to enable the quick scan, if users do not have the privilege to turn it **ON** using toggle button.

1. Go to Settings > Privacy > Edit group policy, the following Local Group Policy Editor screen appears.

Local Group Policy Editor					
		Jecal Group Policy Editor			
File Action View Help					
🕨 🔿 🙍 📾 🔒 📓 🖬 🝸					
Cocal Computer Policy	^	🧾 App Privacy			
Computer Configuration		Select an item to view its description.	Setting	State	
Windows Settings			E Let Windows apps access account information	Not configured	
Administrativo Tomplator			E Let Windows apps access user movements while running in t	Not configured	
Control Panel			E Let Windows apps access the calendar	Not configured	
> Network			E Let Windows apps access call history	Not configured	
Printers			E Let Windows apps access the camera	Not configured	
Server			E Let Windows apps access contacts	Not configured	
> 🧮 Start Menu and Taskbar			E Let Windows apps access email	Not configured	
> 🧮 System			E Let Windows apps access an eye tracker device	Not configured	
System Center - Operations Manager			E Let Windows apps access location	Not configured	
 Windows Components 			E Let Windows apps access messaging	Not configured	
ActiveX Installer Service			E Let Windows apps access the microphone	Not configured	
Add features to Windows 10			E Let Windows apps access motion	Not configured	
App Package Deployment			E Let Windows apps access notifications	Not configured	
App Privacy			E Let Windows apps make phone calls	Not configured	
App runtime			Let Windows apps control radios	Not configured	
Application Compatibility			E Let Windows apps access Tasks	Not configured	
AutoPlay Policies			E Let Windows apps access trusted devices	Enabled	
Biometrics			E Let Windows apps activate with voice	Not configured	
DitLocker Drive Encryption			E Let Windows apps activate with voice while the system is lock	Not configured	
Content			E Let Windows apps access diagnostic information about other	Not configured	
Connect			E Let Windows apps run in the background	Not configured	
Credential User Interface			E Let Windows apps communicate with unpaired devices	Enabled	
Data Collection and Preview Builds					
Delivery Optimization					
Desktop Gadgets					
> 🧰 Desktop Window Manager					
Device and Driver Compatibility	~				
	>	Extended Standard			

Figure 3-1: Local Group Policy Editor screen

2. Go to Computer Configuration > Administrative Templates > Windows Components > App Privacy.

3. Select the required settings on the App Privacy (as shown in the above screen), and **right-click > Edit > Enable the radio button > Apply**.

Pairing the device

Bluetooth Scan:

Perform the below instructions to pair the device through Bluetooth scan on your Tablet/ Smartphone:

- 1. Tap the (Honeywell Versatilis Connect) app.
- 2. The homepage (dashboard) screen appears, tap **Online Configuration and Diagnostics**.
- 3. A pop-up appears requesting location access, select WHILE USING THE APP.
- 4. The **Connect to a device** screen appears, tap on the required device (i.e. Honeywell Versatilis Transmitter or Honeywell Versatilis Signal Scout) you want to connect from the **Available Devices** list.

		Tap to rescan	Tap to search
Tap to go to the home screen	– ← Connect to a device	_م	_the transmitter using Tag ID
	Bluetooth Scan	C 🔊 🛒 —	Tap to pair a
List of paired active/ -	– \vee Paired Devices (2)	λ⊱ Scanning	transmitter using
inactive transmitter with distance range	C_TAG HONHVT100A00405A Ø Active ≪ ~70cm away	Forget	QRScan
	C_TAG HONHVT101A002632	Forget	Tap to delete
	\vee Available Devices (0)		the transmitter
	No devices found		

Figure 3-2: Bluetooth scan screen

NOTE: The HVT100 series denotes to Honeywell Versatilis Transmitter (for example: HONHVT100A0005A) and the HVT101 series denotes to Honeywell Versatilis Signal Scout (for example: HONHVT101A002632).

- 5. A confirmation pop-up appears, tap Yes. The app initiates the pairing process.
- A page appears requesting to enter passcode. Type-in the preconfigured default six-digit passcode "110420". Upon successful connection, the default configuration page, i.e.

Asset Details screen appears. And, the connected device also gets added to the list of paired devices.

NOTE: To change your default passcode, go to the change passcode feature on About Device page.

In case you forgot your changed passcode for app on Android or Windows platform, you can reset the changed passcode to the default passcode using reed switch provided on the device. For more information on how to reset the passcode, see Honeywell Versatilis Transmitter Installation and User's Guide, 34-VT-25-01 or Honeywell Versatilis Signal Scout Installation and User's Guide, 34-VT-25-02

QR Code Scan:

Perform the below instruction to pair the device through QR Code scan on your Tablet/ Smartphone:



- (Honeywell Versatilis Connect) app. 1. Open
- 2. The homepage (dashboard) screen appears, tap Online Configuration and Diagnostics.
- 3. A pop-up appears requesting you to allow the app to take pictures and record video, select WHILE USING THE APP.
- 4. The **Connect to a device** screen appears, tap the icon **R** QR Code scan icon.
- 5. The QR code scan screen appears, scan the QR code printed on the intended device which you want to pair.
- 6. A success page appears with the serial number of the device after successful validation of the QR code. You can tap RESCAN to scan another device; else tap CONNECT to proceed further connecting the intended device.

Upon successful connection, the default configuration page, i.e. Asset Details page appears. And, the connected device also gets added to the list of paired devices.



Figure 3-3: Available Honeywell Versatilis Transmitter device using QR code scan

CHAPTER

4

DEVICE CONFIGURATION

Tap the Honeywell Versatilis Connect app icon on your Tablet/ Smartphone. The app loads, and then the following homepage appears:

Honeywell Versatilis Connect	
Conline Configuration & Diagnostics	Offline Configuration Create, edit, import and export the offline configuration
Recent Devices View recently configured transmitters	Firmware Update Update firmware for multiple devices
Settings Configure App settings	Help & Documentation Browse through App help and documentation

Figure 4-1: Homepage

Honeywell Versatilis Transmitter

Honeywell Versatilis Transmitter is a multi-variant sensing platform based on the latest LoRaWAN[®] protocol communication technology. It's 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.

Online configuration

The Online configuration lets users to configure the device, so the device can track the health of the target equipment/machine when installed/fitted in the process industries.

NOTE: Make sure the Bluetooth is turned ON. See <u>Turn on the</u> <u>Bluetooth</u>.

By default, after successful connection to the device, the <u>Asset</u> <u>details</u> screen appears. For more information on how to pair a device, see "<u>Getting started</u>".

Asset Details

The page provides key information of the asset to which the device is installed/fitted.

-					
lap to go to the	→ ← DefaultTag				
scan page	0			🥝 🔰 99% 🕅	
scan page	🖺 Asset Details 🖹 Sensors	Parameters 🗋 Networ	k 🔒 Device Locatio	on 👔 Configuration S	umn
	Asset Details				
	Template (Ontional)				T
	Temptate (Optional)			~	Tap to import the
					template
assigned	Tag ID				temptate
to the device-	C_TAG				
for quick					Unique ID
identification	Parent Asset ID				assigned to the targe
	P_Tag Test				equipment/ machine
	Description				device is installed/
					fitted) for easy
Any additional -	Test				identification
might belouser	180 characters only				
to know more					
about the device.			Con	figure Device	
			B Disc	ard All Changes	- 2
			ل Rese	t to Default	- 3
				\rightarrow NEXT \checkmark	— Enables when
	Configuration	<u>lis</u>	L.	0	changes are
	Computation	Montoring	Diagnostics	About Device	performed
		ļ			
		ю	5	4	

Figure 4-2: Asset details screen

ltems	Description
1	Configure Device : Displays the device configuration summary.
2	Discard All Changes : a. A dialog appears, tap Continue to discard the current configurations that are being updated, or b. Tap Cancel to retain the currently configured changes.
3	Reset to Default : To revert the existing configurations to the default values. The users must sync the device configuration through Configure Device action.
4	About Device. For more information, see <u>About device</u> .
5	Diagnostics . For more information, see <u>Diagnostics and</u> <u>Troubleshooting.</u>
6	Monitoring . For more information, see <u>Monitoring</u> .

Click \rightarrow NEXT to go to the **Sensors Parameters** tab.

Sensor Parameters

The Honeywell Versatilis Transmitter measures six parameters on the target machine. The parameters are:

- Surface Temperature
- Ambient Humidity
- Ambient Temperature
- Ambient Pressure
- Vibration
- Acoustics

On the <u>device configuration</u> page, tap Sensor Parameters tab. The following screen appears:

	Tap to go to the home screen	
	← DefaultTag	
Shows the device	- 🖲 📀 🖓 99% 📼	
is in active state	🖹 Asset Details 🛗 Sensors Parameters 🔹 Network 🕼 Device Location 🗎 Configuration Summ	
	Sensor Parameters	
Tap to change_ the measurement interval	V Measurement Interval 5 Minutes	
	V Surface Temperature	
	V Ambient Humidity	Enable/Disable parameters
Sensor	✓ Ambient Temperature	measurement
Falameters	✓ Ambient Pressure	
	Vibration	
	V Acoustics	
Tap to go back to		
screen	Configuration Monitoring Diagnostics About Device	



Tap the dropdown arrow against the required parameter to edit its value.

NOTE: You must need to enable the toggle switch at each sensor parameter you want to edit.

NOTE: While using the offline template, the sensor parameters are pre-configured and automatically filled in. It is not necessary for you to specify the sensor parameters.

Surface Temperature, Ambient Humidity, Ambient Temperature, and Ambient Pressure

The following figure illustrates the corresponding fields of Surface Temperature parameter as an example:



Figure 4-4: Surface Temperature parameter screen_Honeywell Versatilis Transmitter

Table 4-2: Call out descriptions of Sensor Parameters fields

Fields	Description	
1 (Measurement Interval)	Specify the duration for which you want to record the sensor parameters data of your device.	
	NOTE: Recommended measuring unit is in "minutes".	
	The minimum time interval is 10 minutes and should be in multiples of 5 seconds.	
2 (Unit)	The units associated with the various parameters are as follows, select the unit as required.	
	Surface Temperature: °C (default) / °F	
	Ambient Humidity: %RH (default)	
	Ambient Temperature: °C (default) / °F	
	Ambient Pressure: hPa (default) / atm.	
3 (Compensation)	To maintain the same level of accuracy for measurement over different mounting options, the app, allows you to enable the compensation.	

Fields	Description
	If the compensation is enabled, Adapter Configuration field appears. Select the actual configuration carried out, while installation i.e., either magnetic mount, adhesive or threaded (screw mount).
4 (Alarm Type*)	The option "Alarm Type" allows you to configure required alarm type for your device. It alerts you to take proactive measures to investigate the issue, once the current measurement exceeds the configured limit.
	Based on the alarm type you choose; the corresponding configuration field appears or changes.
	The following are the available alarm types:
	 Disabled: In this state, the alarm won't trigger. Standard Alarms: Specify the operational temperature range for the parameter within the predefine temperature range, beyond which the alarm triggers, and the same can be seen in Live Data. Increasing: Specify the required "limit value" within the defined measurable range. For example, If the limit value is set to "5" degrees, the respective alarm triggers up whenever the current measurement value drops down below "5" degrees, and the same can be seen in Live Data. Decreasing: Specify the required "limit value drops down below "5" degrees, and the same can be seen in Live Data. Decreasing: Specify the required "limit value" within the predefined measurable range. For example, If the limit value within the predefined measurable range. For example, If the limit value set to "5" degrees, then the respective alarm triggers up whenever the current measurement

Fields	Description	
	 value increases above "5" degrees, the same can be seen in Live Data. Rate of Changes: Specify the required "Rate of Change" value within the defined measurable range. For example, if the rate of change value is set to "5" degrees, the respective alarm triggers up whenever the current measurement value changes beyond "5" degrees in sensor interval time period. 	
*"Alarm Type" configuration field is applicable for the parameters		

such as Surface Temperature, Ambient Humidity, Ambient Temperature, and Ambient Pressure.

Vibration

The device measures the vibration oscillations of the target asset. The following figures illustrates the corresponding fields of the Vibration parameters such as Acceleration and Velocity.



Figure 4-5: Vibration parameter - Acceleration



Figure 4-6: Vibration parameter - Velocity: Frequency Trigger alarm type (X-Axis) field description

Table 4-3: Vibration - Velocity: Frequency Trigger alarm type X-Axisscreen description

Fields	Description
1	Foundation type : Rigid (fixed to the ground), Flexible (movable to other places).
2	Rated Power : Assets rated power (measurable range is up to 1000kW).
3	Rated Speed : Assets RPM (measurable range is up to 50,000 RPM).
4	 Alarm Type: You can either select, Disable or Enable, alarm type. Enable: If you select this alarm, the corresponding configuration fields appear i.e., the "Frequency Bands", and its "Amplitude Limits". Specify or update the frequency bands and its amplitude limits as required.
5	Velocity Limit: Device vibration per second.

Similarly, update the same fields for Y and Z axis also, if required.

Acoustics

The device measures the sound waves generated by the asset. The following figure illustrates the corresponding fields of the Acoustics parameter:

	Acoustics		 Tap to enable the Acoustics
Acoustics measuring unit	dBSPL		
	Frequency Trigger		Tap to change the Alarm type
Frequency_ Band	Frequency O - 22200 Frequency Range OHz to 22200Hz	Magnitude Limit O Magnitude Range OdBSPL to 120dBSPL	Enter the limit

Figure 4-7: Acoustics - Frequency Trigger

Table 4-4: Acoustics- Frequency Trigger field description

Fields	Description
Alarm type	You can either select, Disable or Frequency Trigger , alarm type.
	• Frequency Trigger: If you select this alarm, the corresponding configuration fields appear i.e., the "Frequency Bands", and its "Magnitude Limits". Specify or update the frequency bands and its magnitude limits as required.



 \rightarrow NEXT to go to **Network** tab.

Network

The following figure illustrates the corresponding fields related to LoRa Network configuration.

Tap to go to the-	← DefaultTag
	0 🕑 😔 🖓 🗐 99% 🥅
[🖹 Asset Details 🛅 Sensors Parameters 🐧 Network 🌗 Device Location 😭 Configuration Sumn
	Network
	Reporting Interval LoRa Region
1	Minutes v 30 IN865 v 2
	Activation Mode
	авр отаа ——————————————————————————————————
	LoRa Device EUI
	FFFFFFFFFFFFFF
	LoRa Application EUI
	-4
	LoRa Application key
	000000000000000000000000000000000000000

Figure 4-8: Network configuration screen - OTAA Mode

Tap to go to the –	━ ← DefaultTag
nome screen	0 🕑 🕹 🖓
	😫 Asset Details 🛗 Sensors Parameters 🔒 Network 🌗 Device Location 🗎 Configuration Summ
	Network
	Reporting Interval LoRa Region
1-	Minutes ~ 30 IN865 ~ 2
	Activation Mode 🕙
	авр отаа — 3
	LoRa Device Address 🕙
	55555555
	LoRa Network Session key 🕙
	-4
	LoRa Application Session key 🕙
	9999999999999999999999999999999

Figure 4-9: Network configuration screen - ABP Mode

Table 4-5: Network configuration screen callout descriptions for OTAA and ABP modes

Items	Description				
1 (Reporting Interval)	Select the reporting interval to the LORA Network server as required. The interval should be multiple of Measurement Interval as defined in the Sensor Parameters.				
2 (LoRa region)	The frequency and channel plan varies for countries and regions. For more details, see Honeywell Versatilis Transmitter Technical Specifications document.				
3 (Activation Mode)	 User can select any of the two following modes to configure LoRaWAN: OTAA (Over The Air Activation): The transmitters configured over OTAA mode are provisioned with root keys which performs a join procedure with the LoRaWAN network, and root keys are utilized to derive session keys NOTE: The OTAA mode is recommended for more secure connections. ABP (Activation by Personalization): The encryption keys are configured manually on the device and can start sending frames to the Gateway without needing a 'handshake' procedure to exchange the keys (such as the 				
4 (LoRa	one performed during an OTAA join procedure). The Following are the corresponding fields for				
network session keys)	 OTAA configuration: LoRa Device EUI: The unique ID as printed on the enclosure of the device, and can also be seen on the About Device screen of the Honeywell Versatilis Connect app. LoRa Application EUI: The unique number to identify the Join server during activation. This 				

ltems	Description
	value can be manually specified or auto- generated from the Network service provider's application. 3. LoRa Application Key: An application
	encryption key. This value can be manually specified or auto-generated from the Network service provider's application.
	The Following are the corresponding fields for ABP configuration:
	1. LoRa Device Address: The Device Address is a 32-bit number assigned by the network server. The Device Address along with Network Session Key used to identify the device in the current network. This value can be manually specified or auto-generated from the Network service provider's application.
	2. LoRa Network Session Key: The network server and the device both use this key to verify the integrity of all data frames. This value can be manually specified or auto-generated from the Network service provider's application.
	3. LoRa Application Session Key: The application server and the device use this key to encrypt and decrypt the Frame Payload field of application-specific data frames. This value can be manually specified or auto-generated from the Network service provider's application.
	NOTE: Ensure that the same configurations are specified in both Honeywell Versatilis Connect app and LoRaWAN service provider's application to establish successful LoRa based communication.
	For more information on how to configure ABP or OTAA method in the LoRa Network service provider's application, see <i>Honeywell Versatilis</i> <i>Transmitter Installation and User's Guide, 34-</i>

ltems	Description
	VT-25-01 or Honeywell Versatilis Signal Scout Installation and User's Guide, 34-VT-25-02.

Click \rightarrow NEXT to go to the **Device Location** tab.

Device Location

The **Device Location** tab assists you to capture the location details of the device using Honeywell Versatilis Connect app. The following figure illustrates the corresponding fields of the Device Location screen:



Figure 4-10: Device Location screen

Table 4-6: Call out	descriptions	of Device	location	screen
---------------------	--------------	-----------	----------	--------

ltems	Description
1	Capturing methods:
	 a. Manual: Allows users to specify the actual latitude and longitude geographical values of the device in the respective fields to locate the device position. b. Device Pin Location: If you are not aware of the device location, then tap the Capture Location button to capture the current location of the Honeywell Versatilis Transmitter and accordingly, the Latitude and Longitude values are auto-populated in the respective fields.
	NOTE: The live location captured for the Honeywell Versatilis Transmitter is the live location of your Tablet/ Smartphone instead, from where you are capturing. So, take your hand-held Tablet/ Smartphone close to the installed device location for accurate details.
	 c. Calculate Location: If you are not aware of the actual latitude and longitude geographical values of the device but aware of the reference location details of the target equipment/machine to which device is installed/fitted. Then, manually specify the reference values for Latitude, and Longitude, and tap Calculate Location button to calculate other parameters like Distance (m) and Bearing N (deg) for the device.
2	Location images: Tap $\textcircled{\oplus}$ Add image icon to add images of the installation scenarios of the device with the target equipment/machine.
	 Add image from local drive: Tap icon, and select the image from your local drive. Add a suitable label for the image being uploaded, and then tap Done. After selecting an image, you can tap icon to rotate
	 a. Add image from local drive: Tap icon, and select the image from your local drive. Add a suitable label for the image being uploaded, and then tap Done. After selecting an image, you can tap icon to rotate

ltems	Description
	the uploaded image, or ⊃ icon to reselect or re- upload the image.
	 b. Capture image using tablet camera: Tap icon, and adjust the tablet camera to capture the device installation scenario.
	c. The captured image can be edited, deleted, or downloaded to your local drive.

Click \rightarrow NEXT to go to the **Configuration Summary** tab.

Configuration Summary

The following figure illustrates the corresponding fields of the Configuration Summary screen:

Tap to go to the- Asset details	—← DefaultTag			
screen	()		😔 🔰 99% 🥅	
	Asset Details Im Sensors Paran	neters 🔄 Network 🗿 Device Locati	on M Configuration Summary	
	Configuration Summa	iry		
		HONHVT1004004054		
		< 17.425957, 78.32802 €		
Connected	Tag ID-	Recording Int	erval	
Device Tag ID-	C_TAG	5 Minutes		–Parameters data
				recording
Target machine/	Asset Details Parent Asset ID			ume name
Parent device –	P_Tag Test			
summary	Description Test			
	lest			
	Surface Temperature			
	Unit 🕙		Compensation	
Configured	Marry Trans		Disable	
parameters_	Increasing		41°F	
summary				
	Ambient Humidity			
	Unit			
Tap to go back to	← BACK		🖹 Configure 🗸	- Tap 🖪 Discard All Changes
the previous screen				Reset to Default
	Configuration	Monitoring Diagnostics	About Device	

Figure 4-11: Configuration summary screen

Offline Configuration

The Offline Configuration lets you to perform bulk configurations of the devices that are having the same configuration requirements, through an offline template. The offline template allows you to copy, duplicate, share, or modify, and then use for other devices as well.

Tap the Honeywell Versatilis Connect app on your Tablet/ Smartphone. The app loads, and then the homepage appears.

On the homepage, tap **Offline Configuration**. The following screen appears:



Figure 4-12: Offline Configuration screen

Creating a Template

To create an offline template manually:

1. On the Offline Configuration screen, tap **ADD MANUALLY.** The following screen appears:

Tap to go to – Offline Configurtion home screen	Template Details In Senso	Add Template rs Parameters (), Network ()), Device Location	🚡 Template Sum	
Assign template name Assign Keywords for quick search Description of – template (Optional)	Template Name Filter Keywords (Optional) Description (Optional) 180 characters only	Sensor Type Equipment Health Monitoring Equipment Health Monitoring Emissions Monitoring	~	Tap to select the sensor type
			\rightarrow NEXT \lor	Tap to Discard All Changes

Figure 4-13: Create an offline template

2. Tap $\rightarrow \text{NEXT}$, the following sensor parameter screen appears. Configure the sensors parameters details as required.

Tap to go to—	= =	Add	Template			
Offline Configurtion	🗈 Template Details	Sensors Parameters	🖪 Network	Device Location	🏦 Template Sum	
home screen						
	Sensor Paramete	ers				
Tap to edit recording -	- V Measuremen	t Interval			5 Minutes	
time frame						
	🗸 Surface Temp	perature				– Tap to Enable/
	1					Disable
	✓ Ambient Hun	nidity				
					_	
Measurement	 Ambient Tem 	perature				
parameters						
	Ambient Pres	ssure				
	V Vibration					
	· violation					
	✓ Acoustics					
Tap to go back to					_	
the template details						
screen	← BACK				→ NEXT V	-Tap to
						up contained and committee

Figure 4-14: Sensor parameter details in offline template

Offline Configurtion home screen Tap to edit reporting interval (multipe of measurement interval) Tap to select ABP Activation Mode tofa Application EUI () tofa Application EUI ()	Tap to go to	Add Template
Tap to edit reporting interval (multipe of measurement interval) Tap to select ABP Activation Mode	Offline Configurtion home screen	🗎 Template Details 🗎 Sensors Parameters 🚺 Network 👔 Device Location 🖪 Template Sum
interval (multipe of measurement interval) Tap to select ABP Activation Mode Lofa Application EUL() Lofa Application key () tofa Application key () tofa Application key ()	Tap to edit reporting	Network
Interval (Interval) Minutes 30 EU866 Tap to select Activation Mode AP OTA LoRa Region ABP Activation Mode LoRa Application EUI (S) LoRa network LoRa Application Key (S) 000700700700700700700700700700700700700	interval (multipe of	Reporting Interval LoRa Region 🚯
Tap to select ABP OTA ABP Activation Mode LoRa Region LoRa Application EUI LoRa network comport/compo	monouroment interval)	Minutes v 30 EU868 V Tap to select
Tap to select ABP OTA ABP Activation Mode LoRa Device EU LoRa Application EUI () LoRa Application EUI () 00070070070070 LoRa Application key () 000700700700700700700700700700700700700	measurement interval)	Activation Mode LoRa Region
ABP Activation Mode	Tap to select—	ABP OTAA
LoRa Application EUL 3 LoRa Application EUL 3 LoRa Application key 3 LoRa Application key 3	ABP Activation Mode	LoRa Device EUI
LoRa Application EUI · 3 oorroorroorroorroorroorroorroorroorroo		
Lota Application Euro 0007007007007007 Lota Application key ① 000700700700700700700700700700700700700		LoRa networ
LoRa Application key :0 00070070070070070070070070070		session keys
LoRa Application Key -50 000700700700700700700700700700700700		
0007007007007007007007007007007		LoRa Application key 🕤
	-	0007007007007007007007007007007
	the Sensor	LA NEXT X Tap to
the Sensor	Parameters screen	Idp to B Discard All Changes

Figure 4-15: Network details in offline template

For more information, see <u>Network</u>.

4. Tap $\rightarrow \text{NEXT}$, the Device Location screen appears.

Tap to go to-	=	Add	Template					
Offline Configurtion	🗈 Template Details	Sensors Parameters	🖪 Network	Device Location	🛅 Template Sumr			
home screen								
	Device Location							
	GPS Location Details	• •D						
Tap to select	Manual		/					
Manual								
Device Pin Location	Latitude		Longitude					
Calculate Location								
Tap to go back to the Network screen	← BACK				\rightarrow NEXT \sim	Tap to	 Save Template Discard All Changes 	

Figure 4-16: Device Location in offline template

For more information, see <u>Device Location</u>.

Tap to go to –	-=	Add Template
Offline Configurtion	Template Details 🗈 Sensors	Parameters 🕒 Network 🕼 Device Location 🛅 Template Summ
home screen		
	Template Summary	
	Template Details	
	Template Name	Sensor Type
	D07	Equipment Health Monitoring
	Filter Keywords (Optional) Ble ,App	
	Description (Optional)	
	Recording Interval	
	5 Minutes	
	Surface Temperature	
	Unit	Adapter Configuration
	°C Alarm Tune	None
	Disabled	
	Ambient Humidity	
	Unit	
	%RH Alarm Type	
	Disabled	
	Ambient Temperature	
Tap to go back to	Unit	
the Device	*C	

Figure 4-17: Template Summary

6. Preview the summary page, and then tap **F** save to save the offline template for future use. A success dialog appears, tap **OKAY**.

The Honeywell Versatilis Connect app displays the list of offline configuration templates that has been created as shown in the following screen:

		Tap to apply Tequired filter type
Tap to go to the home screen	← Offline Configuration	Tap to search with
Displays the list of _ created templates	Test Equipment Health Monitoring Test	Tap to add new template
	Template-2 Emission Monitoring Test Template	Tap to import 15-10-2022 template from local storage

Figure 4-18: Offline Configuration available templates list

Edit the template

Choose the required offline template from the Offline Configuration list, the following template summary screen appears, tap **Edit**.

Tap to go to — the list of offline template	_ ← Template-2 Template Summary	
	Template Details Template Name Sensor Type Template-2 Equipment Health Monitoring Filter Keywords (Optional) Test Template Description (Optional) Test Description	
Template Summary	Surface Temperature Unit Compensation C Disable Aarm Type Disabled	
	Ambient Humidity Unit 9xBH Aarm Type Disabled	
	Ambient Temperature Unit e Aarm Type Disabled Ambient Pressure	
Tap to edit	Unit nPa CLOSE	Tap to close the template
the template	Iap ⊡ Share Template Duplicate Template @ Delete Template	

Figure 4-19: Edit template screen

Share, Duplicate, and Delete the template

The Honeywell Versatilis Connect app provides flexibility to its users to edit an offline configuration template and re-use it as per our requirements.

From the list of offline configuration templates, tap the required template to perform the following actions.

← Offline Configur	Configuration			s 🍀	
Templates : 2			[
	15-10-202	2 SHARE	DUPLICATE	DELETE	
Template-2 Emissions Monitoring Test Template				15-10-2022	

Figure 4-20: Offline Configuration - Template options

To export the template

Choose the offline template from the list:



- 2. Specify the file name, and browse the required destination path, and tap **Save**.
- 3. A success message appears, tap OK.

To duplicate the template

Choose the offline template from the list:

Tap to duplicate the existing template.

A duplicated copy of the selected template is created and is listed on the Offline Configuration Template list.

To delete the template

Choose the offline template from the list:

1. Tap 💼 .

2. In the confirmation dialog, tap **Proceed**.

The selected template gets deleted from the Offline Configuration list.

Import a Template

Users can import the predefined offline template from the local drive.

To import a template:

- 1. Tap on the Offline Configuration list.
- 2. Browse the required template and tap **Open**.
- 3. The Configuration Changes Summary dialog appears confirming successful import of the template, tap **OK**. The imported template is now added to the Offline Configuration list.

Monitoring

The Honeywell Versatilis Connect app allows you to monitor the sensor parameters by viewing its live data. The sensors parameters configured to the device through online/offline configuration mode are tracked here.

To access the Monitoring data, go to the **Homepage > Online Configuration & Diagnostics > Monitoring**.

View Live Data

The Live Data page includes dashboards that provide quick glance at the recently configured sensor parameters. To access Live Data:

On the monitoring screen, tap **Live Data**. The following screen appears:

	 Record Live Data
Tap to go to-	- ← DefaultTag :- Tap _{C Auto Refresh}
the previous	◎
screen	
	Live Data Last uppated on: 13-01-2023 2004905 History Irend
	948 1100 Mar 0 Mar 1100 Mar 0 Mar 0 Mar 1100 Mar 0
	Acoustics I RMS 49 mm. 228 Hz 200 Hz 100 mm.
Tap to view	
Acoustics	Acceleration I RMS
FFI trends	0.025, -Measurement
	esz ész ész her
	546 Hz MONITORING
	0g 16g
Tap to view	0.036,
Acceleration	656.23 Hz 09 169
FFT trends	
	Configuration Monitoring Diagnostics About Device
Tap to do	wnload Acceleration RAW data

Figure 4-21: Live Data screen showing Acceleration

Tap to go to -	CefaultTag	
	~ Live Data B History Trend	
screen	Live Data 12 Last updated on : 13-01-2023 20:35:25	
	Accustics I RMS	
	Velocity IRMS Measuremen	nt
	0.434 mm/ parameters	
	v-ads 0.424 mov	
	Omm/s 20 mm/s	
	2-ads 0.718 mm.h	
Tap to view		
FFT trends	Configuration Monitoring Diagnostics About Device	

Figure 4-22: Live Data screen showing Velocity
Figure 4-22: Live Data screen showing Velocity

Alarms

Based on the alarm type and the measuring limit you choose; the alarm is triggered, and a bell icon appears at the respective parameter which is impacted. The following screen shows a triggered alarm:

Tap to go to	- ← DefaultTag	:	
the previous	0	🥥 🖇 99% 🥅	
screen	→ Live Data [Histo	bry Trend	Tap to view
	Live Data	Last updated on : 13-01-2023 20:35:25	History Trend
	Ambient Temperature	Surface Temperature	
	23	24 ···	
	-40 °C 80 °C	-40 °C 80 °C	
Tap to view -	0		
Ambient Temperature ×	Ambient Pressure	Ambient Humidity	
Parameter value exceeded the defined range of -40% - 8%	300 hPa 948	0 %RH 64	
	٩	۵	

Figure 4-23: Live data screen with Alarms

Record Live Data:

- 1. On the Live Data screen, tap > Record Live Data.
- 2. A timer is shown on the top of the screen, tap to end the recording.
- 3. Give a suitable file name, and tap **Save** to store the data file in the local drive.
- 4. Recording Saved dialog appears, tap OK.

View FFT Graphs:

1. On the **Live Data** screen, tap **E F** icon. The following FFT Trends screen appears:



Figure 4-24: Acoustics FFT Trend screen



Figure 4-25: Velocity FFT Trend screen

Displays the con data capture tin	nnected device, Acceleration FFT Trend, ne frame Homer (2000/000000000000000000000000000000000	Enable/ disable auto refresh
Tap to – select the Acceleration axis		Tap to export the Acceleration FFT Trends

Figure 4-26: Acceleration FFT Trend screen

NOTE: The FFT sampling frequency is 5376 Hz and FFT size is 512.

Export FFT Trends:

- On the Acoustics/Acceleration/Vibration FFT Trend screen, tap
 icon.
- 2. Give a suitable file name, select the path, and then tap **Export**.
- 3. A dialog appears, tap Export.

The selected parameter FFT Trend is now save to your local drive.

View History Trends:

On the **Monitoring** screen, tap **History Trend** the following screen appears:



Figure 4-27: History Trends landing page

NOTE: Number of records will vary based on defined Measurement interval in configuration.

After selecting the period of history time, the sensor parameters trends appear as shown in the following screens:



NOTE: By selecting the 'All Data' in download trends a maximum of 30 days of data can be downloaded from the device's last configuration.



Figure 4-28: History Trends screen

Export/ Download History Trends:

- 1. On the Monitoring screen,
 - Select the required trend option.
 - Select the time interval from the dropdown menu.
 - Tap 🖵
- 2. Give a suitable file name, select the path, and then tap **Export**.
- 3. A dialog appears, tap **Save**.

The history trends for selected time interval are now saved to your local drive.

Recent Devices

The Honeywell Versatilis Connect app stores the data of the recently configured devices. You can remotely access the data of the recently configured devices in offline mode. Tap the required device from the list to preview its summary of the configuration details.

On the homepage (dashboard), tap **Recent Devices**. The Recent Devices page including the list of recently configured devices along with the options to search, filter, or delete appears, as shown the following screen:

		Tap to search the device
Tap to go— to the home screen	← Recent Devices	→ ﷺ — Tap Marset al Titure Titure □ Today □ Vectores □ Vectores
	HONMV1100A002632 Inactive Parent Asset ID:	17-10-2022 DELET Deck Status
prev	Displays status of iously connected device	Prostor

Figure 4-29: Recent Devices screen

After selecting the required device, users have access to view information of last configured devices, monitoring live data and about the device.

Diagnostics

On the homepage, tap **Diagnostics**. The following screen appears, showing the overall health of the device, condition of each configured parameter of the device, and the connectivity status of the communication modes.





The status are indicated as follows:

Green tick: Indicates good working condition of the sensor(s) or the healthy connection status for communication mode(s).

Red cross: Indicates some error or malfunction with sensor(s), or some connectivity issues with communication mode(s). You can investigate the cause by verifying the respective parameters configuration under the <u>Sensor Parameters</u> tab.

Settings

The Honeywell Versatilis Connect app provides flexibility in configuring the app related settings to suit your requirements.

To configure the Honeywell Versatilis Connect app settings:

On the homepage, tap **Settings**. The following **Settings** screen appears:

Tap to go	- ← Settings		
home screen	General		-
	Display Language	English (US) 🗲	Display Language
	UOM		
	Temperature	Celsius (°C) >	Tap op individual
	Pressure	Hectopascal (hPa) 🗦	to set measurement
	Humidity	Relative Humidity (%RH)	unit for sensor
	Vibration	G-forces (g)	P
	Acoustics	dBSPL ,	
	Data		Tauta
	Live Refresh Rate	5 Seconds >	change the
	Recent Device Retention Period	30 days 🗦	Data
	App Log		Settings
	Log Level	Information >	Tap to
	Retention Period	30 days >	_change the
	Log Size	100 MB >	settings
	Download App Log	>	<u>ر</u>

Figure 4-31: Settings screen

NOTE: The Honeywell Versatilis Connect app must be restarted (i.e., to close, and re-open the app) to implement the updated settings.

General:

The app provides options to switch the display language to Chinese/ Spanish/ French/ German as required.

English is the default display language of the app.

Tap ← icon to move to the **Settings** page.

UOM

The UOM section shows the units of measurement associated with the respective parameters. The app allows you to change the unit of measurement for the sensor parameters as shown in the following table:

Parameters	Value
Temperature	Celsius (°C) or Fahrenheit (°F). The default unit is "Celsius (°C)".
Pressure	Hectopascal (hPa) or Atmospheric (atm). The default unit is "Hectopascal (hPa)".

Data

The **Data** section allows you to change the following:

- Live Refresh Rate: The rate at which the app refreshes/ reloads. You can set it within the range of 5 to 30 seconds. The default value is 5 seconds.
- **Recent Device Retention Period**: The period for which the recent devices data will be stored in the app. You can set it within the range of 30 to 90 days. The default value is 30 days.

App Log

The App Log section allows you to specify the following details to download the app logs in the required manner.

- Log Level: Select the Log Level from the available list such as :
 - Information: Captures some important information about application flow. This is the default and recommended log level.
 - **Debug**: Captures detailed information about the field device communication.
 - Error: Captures the failed instances of exceptions and errors.
 - Warning: Captures warnings messages.

Once the log level is modified to reflect the changes, restart the Honeywell Versatilis Connect app.

- Retention period: Select the period with in the range of 30 to 90 days for which the log data will be stored in the app. The default value is "30 days".
- Log size: Select the maximum size with in the range of 100 MB to 400 MB for the log data storage. The default value is "100 MB".
- **Download App Log:** Displays the list of available log files. Select the required file and save. A success dialog appears, tap **OK**.

Tap ficon to move to the Settings screen.

Honeywell Versatilis Signal Scout

Honeywell Versatilis Signal Scout (HVSS) is a smart methane gas leak detector that uses Molecular Property Spectrometer (MPS) technology and a patented design to deliver rapid and accurate methane gas leak detection across a variety of industries from the oil and gas supply chain to safety applications.

Online Configuration

The online configuration lets users to configure sensor parameters that are used to detect the gas leak and track ambient conditions in the plant or process industries, where they are mounted.

NOTE: Make sure the Bluetooth is turned on. See <u>Turn on the</u> <u>Bluetooth</u>.

By default, the <u>Asset Details</u> page appears, after successful connection of the device. For more information on how to pair a device, see <u>Getting Started</u>.

Asset Details

The page provides key information of the asset on which the device is mounted.

Tap to go to the – Bluetooth scan page	- ← DefaultTag	
A unique ID assigned to the device- for quick identification Any additional - information that	Asset Details Asset Details Asset Details Template (Optional) C_TAG Parent Asset ID P.Tag Test Description Test	Tap to import the offline configuration template Unique ID assigned to the target equipment/ machine (to which the device is installed/ fitted) for easy identification
might help user to know more about the device.	180 characters enty	 1 2 3 Enables when changes are performed

Figure 4-32: Asset Details Page

Table 4-7: Asset details screen ca	allout description
------------------------------------	--------------------

ltems	Description
1	Configure Device: Displays the device configuration summary.
2	 Discard All Changes: a. A dialog appears, tap Continue to discard the current configurations that are being updated, or b. Tap Cancel to retain the currently configured changes.
3	Reset to Default: To revert the existing configurations to default values. The users must sync the device configuration through Configure Device action.

ltems	Description
4	About Device: For more information, see <u>About device</u> .
5	Diagnostics: For more information, see <u>Diagnostics</u> .
6	Monitoring: For more information, see Monitoring.

Click to go to the **Sensors Parameters** tab.

Sensors Parameters

The Honeywell Versatilis Signal Scout measures four parameters as follows:

- Ambient Humidity
- Ambient Temperature
- Ambient Pressure
- Gas Sensor

On the <u>device configuration</u> page, tap **Sensor Parameters** tab. The following screen appears:

	Tap to go to the previous screen	
Shows the device	¢ C_TAG	
is in active status —	- 0	- 🥪 🖇 100% 🥅
	Asset Details 🖺 Sensors Parameters 🖪 Network 🍙 Device Location	Configuration Sumn
Tap to change the measurement	Sensor Parameters	
interval (min time period of 10 secs and multiples of 5 secs)	✓ Measurement Interval	15 Seconds
	° ∨ Ambient Humidity	Enable/Disable parameters
Measurement	✓ Ambient Temperature	measurement
parameters	✓ Ambient Pressure	•
	a V Gas Sensor	•

Figure 4-33: Sensor Parameters screen_Honeywell Versatilis Signal Scout

Tap the dropdown arrow to edit individual parameters. After you

configure the required sensor parameters, tap \rightarrow NEXT to proceed further with next tab.

NOTE: You must need to enable the toggle switch at each sensor parameter you want to edit.

Ambient Humidity, Ambient Temperature and Ambient Pressure

The following figure illustrates the corresponding fields of Ambient humidity parameter as an example:

∧ Ambient Humidity	Tap to Enable/ Disable the
Unit	parameter monitoring
%RH	

Figure 4-34: Ambient Humidity Parameter Fields

NOTE: The **Alarm Type** feature for Ambient Humidity, Ambient Temperature and Ambient Pressure is not supported in the current release.

Gas Sensor

The following figure illustrates the corresponding fields of Gas Sensor based on the sensor type selected:

		Tap to e	nable Ga	as sensor
∧ Gas Sensor				
Unit	Sensor Type			
ppm	MOX	PELLISTOR	MPS	
ON Duration				type as required
10				
Duration 5 minute to 120 minutes				
OFF Duration				
15				
Duration 0 minute to 120 minutes				

Figure 4-35: Gas Sensor Parameter screen_Honeywell Versatilis Signal Scout

Based on the sensor type you choose, the corresponding configuration field appears, or changes as described in the following table:

 Unit: By default, the unit "ppm" is preselected and in non-editable field.
 ON Duration²: Specify the range in between 5 to 120 minutes for the sensor to be ON.
 OFF Duration²: Specify the range in between 0 to 120 minutes for the sensor to be OFF.
s currently not supported for this
F Duration" fields are only applicable

Table 4-8: Gas Sensor - Fields descriptions

Click \rightarrow NEXT to go to the **Network** tab.

Network

On the <u>device configuration</u> page, tap **Network** tab, or tap \rightarrow NEXT on the previous tab (Sensors Parameters). The following network related configuration fields appear:

Tap to go to the-	─ ← DefaultTag	
	0 00 00 00 00 00 00 00 00 00 00 00 00 0	
	🏦 Asset Details 🛅 Sensors Parameters 🔹 Network 🕻 Device Location 🗎 Configuration Summ	
	Network	
	Reporting Interval LoRa Region	
1-	Minutes ~ 30 IN865 ~ - 2	
	Activation Mode	
	авр отааЗ	
	LoRa Device EUI	
	FFFFFFFFFFFFF	
	LoRa Application EUI	
	-4	
	LoRa Application key	
	000000000000000000000000000000000000000	

Figure 4-36: Network Configuration Fields

Tap to go to the – home screen	← CefaultTag ③	
	🖹 Asset Details 🛅 Sensors Parameters 🔒 Network 🌗 Device Location 🗎 Configuration Summ	
	Network	
	Reporting Interval LoRa Region	
1-	Minutes V 30 IN865 V	2
	Activation Mode 🕙	
	АВР ОТАА	3
	LoRa Device Address 🕙	
	55555555	
	LoRa Network Session key 🕣	
	888888888888888888888888888888888888888	4
	LoRa Application Session key 🕙	
	999999999999999999999999999999999999999	

Figure 4-37: Network configuration screen - ABP Mode

Table 4-9: Network configuration screen callout descriptions for OTAA and ABP modes

ltems	Description	
1 (Reporting Interval)	Auto calculated based on the measurement interval defined in the sensor parameters.	
2 (LoRa Region)	The frequency and channel plan varies for countries and regions. For more details, see <i>Honeywell</i> <i>Versatilis Signal ScoutTechnical Specifications</i> .	
3 (Activation Mode)	 User can select any of the two following modes to configure LoRaWAN: OTAA (Over The Air Activation): The devices configured over OTAA mode are provisioned with root keys which performs a join procedure with the LoRaWAN network, and root keys are utilized to derive session keys. NOTE: The OTAA mode is recommended for more secure connections. ABP (Activation by Personalization): The encryption keys are configured manually o the device and can start sending frames to the Gateway without needing a 'handshake' procedure to exchange the keys (such as the or performed during an OTAA join procedure). 	
4 (LoRa network session keys)	 Following are the corresponding fields for OTAA configuration: LoRa Device EUI LoRa Application EUI LoRa Application Key Following are the corresponding fields for ABP configuration: LoRa Device Address LoRa Network Session Key 	

Items	Description		
	 LoRa Application Session Key 		
	NOTE: Ensure that the same configurations are specified in both Honeywell Versatilis Connect and LoRaWAN service provider's application to establish successful LoRa based communication.		
	Connect and LoRaWAN service provider's application to establish successful LoRa based communication.		



Device Location

The **Device Location** tab assists you to capture the location details of Honeywell Versatilis Signal Scout using Honeywell Versatilis Connect.

The following figure illustrates the corresponding fields of the Device Location screen:



Figure 4-38: Device Location Fields

Table 4-10: E	Descriptions	of Device	Location	Fields
---------------	--------------	-----------	----------	--------

Items	Description
1	 Capturing methods: a. Manual : Allows users to specify the actual geographical latitude and longitude values in the respective fields to locate the device. b. Device Pin Location: If you are not aware of the device location details, then tap the Capture Location button to capture the current location of the Honeywell Versatilis Signal Scout and accordingly, the Latitude and Longitude values are auto-populated in the respective fields.
	NOTE: The live location captured for the Honeywell Versatilis Signal Scout is the live location of your Tablet/ Smartphone instead, from where you are capturing. So, take your hand held Tablet/ Smartphone close to the installed Honeywell Versatilis Signal Scout's location for more accurate details.
	 c. Calculate Location: If you are not aware of the actual values but aware of reference location details of the target structure on which the Honeywell Versatilis Signal Scout is installed. Then, manually specify the reference values for Latitude, and Longitude of the Honeywell Versatilis Signal Scout's location, and tap Calculate Location button, to calculate other parameters like Distance (m) and Bearing N (deg) of the Honeywell Versatilis Signal Scout.
2	Location Images: Tap $\stackrel{}{\oplus}$ Add Image icon to add images of the installation scenarios of the device on the target structure.
	a. Add image from local drive: Tap ^(D) icon, and select the image from your local drive. Add a suitable label for the image being uploaded, and then tap Done .

ltems	Description
	 After selecting an image, you can tap icon to rotate the uploaded image, or tap icon to reselect or re-upload the image. b. Capture image using tablet camera: Tap icon, and adjust the tablet camera to capture the image of Honeywell Versatilis Signal Scout mounted on the target structure. a. The contured image can be edited, deleted or
	c. The captured image can be edited, deleted or downloaded to your local drive.
Tap → N	to go to the Configuration Summary tab.

Configuration Summary

The following figure illustrates the corresponding fields of the Configuration Summary screen:

Tap to go to the	—← C_	TAG				
Asset details	0				🥝 🔰 100% 🥅	
screen	Asset Details	📅 Sensors Parameters	🔓 Network	Device Location	🗎 Configuration Summar	y
	Configu	ration Summary				
				1000500		
		4	11.901276. 3	1A002632 3.948952 🕥		
Connected	-Tag ID-			Recording Interva	ıl	
Device Tag ID -	C_TAG			15 Seconds	_	Parameters data
Target machine/ Parent device – summary	Asset De Parent, P_Tag t Descrip Descrip estPare	tails Asset ID est tion tionTestParntDescriptionTe ttDescriptionTestParntDescri Humidity	stParntDescript iptionTestParnt	ionTestParntDescription DescriptionTestParntDu	nTestParntDescriptionT escriptionTestParnt	time frame
	Unit %RH Alarm T Disable	iype ed				
Tap to go back to		1				Tan Da Discard All Changes
the previous screen	DACK				La compute	B Pecet to Default
	C	L ä onfiguration Mo	llin nitoring	Diagnostics	O About Device	IB Reset to Detablit

Figure 4-39: Configuration summary screen

Offline Configuration

The Offline Configuration lets you to perform bulk configurations of the devices that are having the same configurations requirements, through an offline template. The offline template allows you to copy, duplicate, share, or modify, and then use for other devices as well.

Open the Honeywell Versatilis Connect on your Tablet/ Smartphone. The homepage (dashboard) appears.

On the homepage (dashboard), tap **Offline Configuration**. The Offline Configuration page appears as illustrated in the following figure:



Figure 4-40: Offline Configuration Page

Creating a Template

To create an offline template manually:

 On the Offline Configuration page, tap ADD MANUALLY. The ADD Template page appears as illustrated in the following figure. Provide the template details as required.

Tap to go to - Offline Configurtion home screen	Template Details	Add Template rs Parameters 🛛 Network 🗋 De	vice Location Template Sum	
Assign template name- Assign Keywords for quick search Description of – template (Optional)	Template Name Filter Keywords (Optional) Description (Optional) 100 characters only	Sensor Type Equipment Health Monitoring Equipment Health Monitoring Emissions Monitoring		-Tap to select the sensor type
			\rightarrow NEXT \vee	Tap to Save Template

Figure 4-41: Template Details

2. Tap \rightarrow NEXT, the Sensor Parameter details appear as illustrated in the following figure. Configure the sensors parameters details as required.

	Sensor Parameters		
Tap to edit recording	✓ Measurement Interval	15 Seconds	
time frame	✓ Ambient Humidity	•T	ap to Enable/ Disable
Measurement–	✓ Ambient Temperature	•	
parameters	✓ Ambient Pressure	•	
	✓ Gas Sensor	•	

Figure 4-42: Sensors Parameters in offline template

Tap to go to	Add Template
Offline Configurtion home screen	Template Details B. Sensors Parameters () Network () Device Location () Template Sum
Tap to edit reporting interval (multipe of	Network Reporting Interval Minutes
Tap to select	Activation Mode LoRa Region
	LoRa Application EUI (3) Cogroopootootootootootootootootootootootooto
-	LeRa Application key 🕤 0007007007007007007007007007007007
Iap to go back to the Sensor Parameters screen	\leftarrow BACK \rightarrow NEXT \lor Tap to $\frac{h}{h}$ Sive Template h Duced All Charge

Figure 4-43: Network details in offline template

For more information, see <u>Network</u>.

4. Tap $\rightarrow \text{NEXT}$, the Device Location screen appears.

Tap to go to -	E	Ado	i Template			
Offline Configurtion	h Template Details	Sensors Parameters	🖪 Network	Device Location	Template Sumr	
home screen						
	Device Location					
	GPS Location Detail	s 🕙				
Tap to select	Manual		~			
Manual						
Device Pin Location	Latitude		Longitude			
Calculate Location						
Tap to go back to						🕞 Save Template
the Network screen	← BACK				→ NEXT V lap to	Discard All Chang

Figure 4-44: Device Location in offline template

For more information, see <u>Device Location</u>.

Tap to go to –	-=	Add Template
Offline Configurtion	Template Details 🗈 Sensors	Parameters 🕒 Network 🕼 Device Location 🛅 Template Sumr
home screen		
	Template Summary	
	Template Details	
	Template Name	Sensor Type
	D07	Equipment Health Monitoring
	Filter Keywords (Optional) Ble ,App	
	Description (Optional)	
	Recording Interval	
	5 Minutes	
	Surface Temperature	
	Unit	Adapter Configuration
	°C Alarm Tune	None
	Disabled	
	Ambient Humidity	
	Unit	
	%RH Alarm Type	
	Disabled	
	Ambient Temperature	
Tap to go back to	Unit	
the Device	*C	

Figure 4-45: Template Summary

6. Preview the summary page, and then tap to save the offline template for future use. A success dialog appears, tap **OKAY**.

The Honeywell Versatilis Connect displays the list of offline configuration templates been created as illustrated in the following figure:

		Tap to apply required filter type
Tap to go to the home screen	← Offline Configuration	Tap to search with
Displays the	Test Equipment Health Monitoring	Tap to add 15-10-2022 new template
created templates	Template-2 Emission bloostimp Test Template	Tap to import 19-10-2022 local storage

Figure 4-46: Offline Configuration List

Edit the template

Choose the required template from the Offline Configuration list, the respective template summary page appears as follows, tap **Edit**.

Tap to go to — the list of	─ ← Template-2	
offline template	Template Summary	
	Template Details Template Name Sensor Type Template-2 Emissions Monitoring Filter Keywords (Optional) Test Template Description (Optional) Test Description	
	-Recording Interval 15 Seconds	
Template Summary	Amblent Humidity Unit %RH Alarm Type Disabled	
	Amblent Temperature Unit °C Alarm Type Disabled	
	Amblent Pressure Unit hPa Alarm Type Disabled	
	Gas Sensor Unit Sensor Type ppm MPS ON Duration OFF Duration 10 15	
Tap to edit the template		Tap to close the template
	Tap B Share Template Duplicate Template	
	🗑 Delete Template	

Figure 4-47: Edit Template Page

Share, Duplicate, and Delete the template

The Honeywell Versatilis Connect provides flexibility to edit an offline configuration template to re-use it as per our requirements.

From the list of offline configuration templates, tap the required template to perform the following actions.

← Offline Configuration			с 191
Templates : 2		[
	15-10-2022		DELETE
Template-2 Emissions Monitoring Test Template			15-10-2022

Figure 4-48: Offline Configuration - Template Options

To export the template

Choose the offline template from the list:



- 2. Specify the file name, and browse the required destination path, and tap **Save**.
- 3. A success message appears, tap OK.

To duplicate the template

Choose the offline template from the list:

Tap Tap to duplicate the existing template.

A duplicated copy of the selected template is created, and is added to the Offline Configuration list.

To delete the template

Choose the offline template from the list:



2. In the confirmation dialog, tap **Proceed**.

The selected template gets deleted from the Offline Configuration list.

Import a Template

Users can import the predefined offline template from the local drive.

To import a template:



- ap **Final** on the Offline Configuration list.
- 2. Browse the required template, and then tap **Open**.
- 3. The Configuration Changes Summary dialog appears confirming successful import of the template, tap **OK**. The imported template is now added to the Offline Configuration list.

Monitoring

The Honeywell Versatilis Connect allows you to monitor the sensor parameters by viewing its live data. The <u>sensors parameters</u> configured to the device are tracked here.

To access the Monitoring data, go to the **homepage** of the Honeywell Versatilis Connect > **Online Configuration & Diagnostics > Monitoring**.

View Live Data

The Live Data page includes dashboards that provide quick glance at the recently configured sensor parameters.

To access Live Data:

On the Monitoring page, tap **Live Data**. The following page showing live data appears:

← C_TAG	More -	-Тар
0	I 100%	Record Live Data Auto Refresh
∼ ⁷ Live Data		
Live Data	Last updated on : 13-01-2023 18:41:21	Displays the time period of
Ambient Temperature	Ambient Pressure	device updates
-40 °C 80 °C	300 hPa 1100 hPa	
Ambient Humidity	Methane Concentration	
0 %RH 100 %RH	ppm	
	1 ppm 50000 ppm	

Figure 4-49: Live Data screen

← HONHVT101A00007E		More
0		🥑 🔰 100% 🥅
	~> Live Data	
Live Data		Last updated on :01/02/2023 18:17:48
Ambient Temperature 22.7 .c	Ambient Pressure	Ambient Humidity
Methane Concentration Gas sensor is OFF		
	Configuration Monitoring Diagnostics About Device	

Figure 4-50: Live Data screen - Gas Sensor OFF

Record Live Data:

- 1. On the Live Data screen, tap More > Record Live Data.
- 2. A timer is shown on the top of the screen, tap $^{\textcircled{\bullet}}$ to end the recording.
- 3. Give a suitable file name, and tap **Save** to store the data file in the local drive.
- 4. Recording Saved dialog appears, tap OK.

Auto Refresh:

On the Live Data screen, tap More, then Enable/ Disable the Auto **Refresh** toggle button to refresh the Live Data recording values.

Diagnostics

On the homepage (dashboard), tap **Diagnostics**. The following page appears, showing the overall health of the device, status of each configured parameter of the device, and the connectivity status of the respective communication modes.



Figure 4-51: Diagnostics Page

The status are indicated as follows:

Green tick: Indicates good working condition of the sensor(s) or the healthy connection status for communication mode(s).

Red cross: Indicates some error or malfunction with sensor(s), or some connectivity issues with communication mode(s).

NOTE: You can also investigate the cause of the particular parameter indicated with Red cross by verifying the respective parameter's configuration field(s) under the <u>Sensors Parameters</u> tab.

Recent Devices

The Honeywell Versatilis Connect stores the data of the recently configured devices. You can remotely access the data of the recently configured devices in offline mode. Tap the required device from the list to preview its summary of the configuration details.

On the homepage (dashboard), tap **Recent Devices**. The Recent Devices page including the list of recently configured devices along with the options to search, filter, or delete appears, as illustrated in the following figure.:



Figure 4-52: Recent Devices Page

Settings

The Honeywell Versatilis Connect provides flexibility in configuring the app related settings to suit your requirements.

To configure the Honeywell Versatilis Connect settings:

On the homepage, tap **Settings**. The following **Settings** screen appears:

-			
lap to go — to the			
home screen	General	Tap to change the	
	Display Language	English (US) > Display Language	
	иом		
	Temperature	Cetsius (°C) >	
	Pressure	Hectopascal (hPa) > Tap on individual to set measureme	ent
	Humidity	Relative Humidity (%RH) – unit for sensor	
	Vibration	G-forces (g)	
	Acoustics	dBSPL	
	Data		
	Live Refresh Rate	^{5 Seconds} > Change the	
	Recent Device Retention Period	30 days > Data	
	App Log	J settings	
	Log Level	Information >	
	Retention Period	30 days >change the	
	Log Size	App log settings	
	Download App Log	>	

Figure 4-53: Settings Page

NOTE: The Honeywell Versatilis Connect must be restarted (i.e. to close, and re-open the app) to implement the modified settings.

General:

English is the default display language of Honeywell Versatilis Connect. The app provides options to switch the display language to Chinese/Spanish/French/German as required.

UOM

The UOM section shows the units of measurement associated with the respective parameters. The app allows you to change the unit of measurement for the below sensor parameters as shown in the following table:

Parameters	Unit of Measure (UOM)
Temperature	Celsius (°C) or Fahrenheit (°F). The default unit is "Celsius (°C)".
Pressure	Hectopascal (hPa) or Atmospheric (atm). The default unit is "Hectopascal (hPa)".

Data

The **Data** section allows you to change the following:

- Live Refresh Rate: The rate at which the app refreshes/ reloads. You can set it within the range of 5 to 30 seconds. The default value is "5 seconds".
- **Recent Device Retention Period**: The period for which the recent devices data will be stored in the app. You can set it within the range of 30 to 90 days. The default value is "30 days".

App Log

The App Log section allows you to specify the following details to download the app logs in the required manner.

- Log level: Select the required log level from the list as follows:
 - Information: Captures some important information about application flow. This is the default and recommended log level.
 - **Debug**: Captures detailed information about the field device communication.
 - Error: Captures the failed instances of exceptions and errors.
 - Warning: Captures warnings messages.

Once the log level is modified to reflect the changes, restart the Honeywell Versatilis Connect app.

- Retention Period: Select the period with in the range of 30 to 90 days for which the log data will be stored in the app. The default value is "30 days".
- Log Size: Select the maximum size with in the range of 100 MB to 400 MB for the log data storage. The default value is "100 MB".
- **Download App Log:** Displays the list of available log files. Select the required file and save. A success message appears, tap **OK**.

Tap to move to the Settings page.

CHAPTER

5

ABOUT DEVICE

Displays the device details such as TagID, Serial number, Bluetooth address, LoRa and Device Firmware configured through Honeywell Versatilis Connect app.

To access the device information, go to the homepage of the Honeywell Versatilis Connect app > **Online Configuration & Diagnostics > About Device**.

		Indicates trans	mitter connect	ed through Bluetooth
Tap to go –	—← DefaultTag			
to the	0		🥑 🔰 99% 🥅	
nome screen	About Device		Ţ	— Tap to download device information
	Tag ID		C_TAG 🗖	
	Serial Number		******	
	Battery Voltage		3.648 volt	
	BLE Address		60:C0:BF:47:40:5A 🗖	
	LoRa DevEUI		FREEFEFEFEFEFEFE	
	LoRa Firmware		1.0.17	
	Device Firmware		1.0.30	
	Firmware Update		>	Tap to update Firmware
	Activate Device		-	Tap to
	Activated Since		2023-Jan-13 20:38:37	Activate/ Deactivate the device
	Last Configured on		2023-Jan-13 20:34:12	
	Manufacturing Time		2157-Jan-01 05:30:00	
	Download Device Log		>	Tap to download device log
	Reboot Device		>	-
	Change passcode		>	-Tap to change passcode
	Configuration	Monitoring Diagnostics	G About Device	

Figure 5-1: About device screen

Download device information:

- 1. Tap $\stackrel{\square}{=}$ to download the device details file. Enter the file name, browse the intended destination path, and tap **SAVE**.
- 2. A success dialog appears, tap **OK**. The device details file is now saved to your local drive.

Update Firmware

To update firmware for your device:

screen		
	(+)	
	Select firmware update file	
	Tag ID : DefaultTag Current firmware version : 1.0.8	
	O Please note that firmware update takes approximately 15 minutes per device	
	O During firmware update, data transmission will be disrupted	
	O Firmware update requires the device to reboot	
	O Please do not turn off bluetooth and stay within device range during firmware update	
	① Please do not press the back button or restart your device during firmware update	
		Tap to select
	SELECT FILE	firmware file

Figure 5-2: Firmware update screen

- 1. Select the required version of the firmware file from your local drive, and tap **Update**.
- 2. A Firmware update success dialog appears, tap OKAY.

The Honeywell Versatilis Connect app shows the updated firmware version in the Device Firmware section.

NOTE: The devices with firmware V1.0.35 must be forget and paired again after successfully upgrading to the latest firmware version.

NOTE: For iOS support, users need to update the device's firmware with V1.0.40 or above. To update the latest firmware, click <u>Honeywell Versatilis Transmitter</u> and go to **Support** tab to download the firmware file.

Activate or Deactivate the Device

On the About Device page, tap the ${\hfill \hfill \hfill$

NOTE: This feature is also available on every screen in the Online Configuration & Diagnostics module. Green indicates that device is in "active" state and Red indicates "inactive" state.

Download Device Log:

1. Tap **>** icon against the **Download Device log**. The following screen appears:

Tap to go to the previous	← Download Device Log	
screen		
	()	
	Download Device Log	
	File Name : HONMVT100A002632_Log_20221017170229 Location : /data/user/0/com honeywell pmt pmc hvtconnect/files/ HONMVT100A002632_DeviceLog csv	
	Please note that downloading device log takes approx 1 minute	
Tap to cancel the device log download	CANCEL	Tap to download _the device log to local storage

Figure 5-3: Firmware update screen

2. Tap **Download**, the log file starts downloading.

The device log is now saved to your local drive.

Reboot Device

ATTENTION: The data transmission will be disrupted while the device reboots.

Tap > icon against the **Reboot Device**. A **Reboot Confirmation** screen appears. Tap **Reboot** and then **OKAY**.

Tap to go to — the previous screen	C Device Reboot	
	Reboot confirmation	
	Tag ID : DefaultTag	
	 Please note that device reboot takes approximately 1 minute Please note that data transmission will be disrupted while device reboots. 	
Tap to cancel the device reboot —	CANCEL	Tap to Reboot or reload the device

Figure 5-4: Reboot device screen

Change Connect App Passcode

To change the passcode assigned to the device in the app:

- 1. Tap **>** icon against the **Change passcode**.
- 2. A pop-up screen prompts to specify the new passcode, and then confirm the specified passcode. Set the six-digit new passcode, and click **Save**.

The passcode is now successfully changed.

NOTE:

In case you forgot your changed passcode, you can reset the changed passcode to the default passcode using reed switch provided on the Honeywell Versatilis Transmitter. For more information on how to reset the passcode, see *Installation and User's Guide* for Honeywell Versatilis Transmitter. CHAPTER

FIRMWARE UPDATE (BULK)

The Honeywell Versatilis Connect app has the provision to update the latest firmware available for the Honeywell Versatilis Transmitter for multiple devices.

Download firmware:

- Click the following link: <u>Honeywell Versatilis Transmitter</u>
- Click the **Resource** tab on the product page.
- Click the Honeywell Versatilis Transmitter Firmware file.
 The file starts downloading and is saved in your local storage.

To update the firmware for multiple devices:

- Go to the homepage of the Honeywell Versatilis Connect app > Firmware Update.
- 2. A pop up with the important considerations appears, tap CLOSE.
- 3. The Firmware Update screen appears, follow the below procedure:

Tap to scan the devices				
	← Firmware Update	م	Tap to	
Select the check box to choose all the available devices Displays the device's firmware version	Select File		browse firmware	
	HVT_BLE_1_0_38_LoRa_1_0_20.bin Version:10.38 Product: EHM	BROWSE	–local storage	
	✓ Paired Devices	C UPDATE(2)		
	X16-test device hyd Ready		a device(s) is selected	
	C_TAG Current V 1 0 35 Available V 1 0 38		Selected	
	D21A_0034 Current V 1.0.37 Available V 1.0.38			
	d3-23testd3-23testdf Current V9019			

Figure 6-1: Bulk firmware update

a. Tap **Browse** to open the required firmware file from your local drive.

b. If the required device is not found under the Paired Devices,

tap $\,^{\mathbb{C}}\,$ to refresh the displayed list.

c. Select the required device(s) that needs firmware update and then tap **UPDATE**.

The firmware update for the selected devices begins transferring the updates and can be seen against each device.



Figure 6-2: Firmware update confirmation screen

NOTE: Firmware update requires the sensor to reboot once the transfer is completed.

NOTE: The devices with firmware V1.0.35 must be unpaired and repaired after successfully upgrading to the latest firmware version.

After successful update, the confirmation status screen appears with the list of updated devices as shown below:
CHAPTER

HELP & DOCUMENTATION

The **Help and Documentation** page guides you to successfully accomplish your tasks. It also serves as proactive assistance to prevent issues or to solve an encountered problem, if any.

On the homepage (dashboard), tap **Help & Documentation**. The following Help & Documentation screen appears.

Tap to go—	- ← Help & Documentation	
to the home		
screen		
App tour videos list	App Variion: 10740 Honeywell Versatilis Connect simplifies maintenance tasks, saves time, provide the flexibility and scalability to perform environment through ismat plant instrumentation. It is many used for configuration and management tasks in the platform environment through ismat plant instrumentation. It is many used for configuration and maintenance of Honeywell multi-variant sensor devices. Videos Pairing with Device > Online Configuration > Offline Configuration > Detailed Tutorials Learn More Document >	Displays App Version information Tap to start the app tour
	Honeywell Versatilis Connect	Tap to view
	http://www.horscvett.com Zerma & Conditions Privacy Statement Copyright © 2022 Honeywett International Inc.	Connect app user's guide

Figure 7-1: Help & Documentation screen

CHAPTER

SECURITY FEATURES

The secure features of the Honeywell Versatilis Connect app are as follows:

- Secure firmware update.
- Secure end-to-end Bluetooth (i.e., secure data communication by application payload and pairing).
- Data protection, Data integrity, and Confidentiality protection.
- The security supported by standard BLE protocol is well implemented.
- Authentication on the BLE security using passcode.
- Communication encryption as per BLE 5.0 version.

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