

Overview

Honeywell Versatilis is a next-generation handheld solution for configuring, calibrating, and troubleshooting field instruments. The solution consists of an intuitive smart app supported on Android and Microsoft Windows mobility platforms that provides flexible and reliable communications to Universal HART, Modbus, and Honeywell DE devices through Bluetooth®.



Figure 1: Honeywell Versatilis Configurator Overview

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Prerequisites

- You must have a Microsoft Store account for Windows and Google Play Store account for Android to download the Honeywell Versatilis Configurator app.
- To scan the QR code for Windows or Android, ensure that you install a QR reader app or a QR code scanner app from Microsoft Store or Google Play Store.



The Honeywell Versatilis Configurator app can also be downloaded from the <u>Honeywell Versatilis Configurator</u> product page through the following steps:

- 1. Click the above link.
- 2. On the Honeywell Versatilis Configurator product page, click the **Resources** tab.
- 3. Click the **Honeywell Versatilis Configurator Software Download Datasheet**; the file is opened in the web browser.

Follow the installation instructions provided in the document to download and install the Honeywell Versatilis Configurator app for the respective platform.

Set up your Honeywell Versatilis Communication Interface (Modem)

- The modem ships without batteries installed. Open the belt clip to access the battery compartment. Locate the screw and loosen it with a Phillips #0 or #1 driver (included). Three AA cells are needed. (Two full sets of NiMH rechargeable cells are included).
- The modem can be powered using a USB cable without requiring batteries in non-hazardous areas.
- Connect the supplied cables (black and red) to the modem terminals according to the required protocol. Attach the cable clips directly to the transmitter terminals, the HART load resistor, or communication bus access points (junction box).
- Press the Power Button to turn ON / wake up the modem.
- Make sure to press the Mode Selection Button to select the required protocol.

Note: To increase battery life, press and hold the Power Button for 2 seconds to put the modem into sleep mode. After 20 minutes (configurable) of no-use detection, the modem automatically enters sleep mode. Press the Power Button to turn it ON.

Tip: Remove the batteries to recharge using a NiMH AA cell charger (included) while in the non-hazardous area.

Launch the Honeywell Versatilis Configurator app		View the Firmware version		
a.	For Android:	• Go to Online Configuration and Diagnostics and select the modem paired to the device.		
•	 Tap the ^{III} Honeywell Versatilis Configurator app to open. For the first time, the location service in Android settings may be turned off by default, which must be enabled to discover the modems. To turn on the location: On your tablet, open Settings. Tap Locations→App Permissions Tap the Honeywell Versatilis Configurator app that you want to change. To change permission, tap the app, then choose Allow only while using the app: The Honeywell Versatilis Configurator app can use the permission only when you use it 	 Tap Modem Configuration and Diagnostics, then scroll down to check the Firmware version. Firmware update (for versions below R1.0002xx) Download the Firmware: Click the following link to open the product page: Link: Honeywell Versatilis Configurator Click the Resource tab on the product page. Click the Versatilis Modem Firmware file, a popup window appears, check Accept and click Download. Versatilis Modem firmware's software download data sheet opens, click Software Download Link to download the latest firmware zip file. 		
b. •	 For Windows: Open the Start menu. It displays an alphabetical list of installed apps. Go to Honeywell Versatilis Configurator app or search with the Configurator name in the search bar. Double-click the Honeywell Versatilis Configurator app to open it. 	 Open the Honeywell Versatilis Configurator app, among available devices tap on the specific modem which needs a firmware upgrade and connect to the device. Click the Modem configuration and diagnostics and scroll the screen to the firmware section. At Update firmware, click the browse icon and select the firmware file from device storage. A confirmation window appears, click Continue. The firmware file downloads to the modem and starts updating the firmware, and an update successful window appears, click OK. The firmware section shows the updated firmware version. 		

- Tap **Online Configuration and Diagnostics** in the Honeywell Versatilis Configurator app to connect to the modem.
- Select from the list of available modems to pair the Honeywell Versatilis Configurator app and the modem.

Modem Buttons and LEDs



Modem Terminals

Protocol	Modem Terminals for Use
HART	Positive: HART (Red) & Negative: COM (black)
	To be connected to loop + & -, or across the HART load resistor
DE	Positive: DE (red) & Negative: COM (black)
	To be connected to the DE transmitter loop + & -
Modbus RS-485	A: Modbus-A (red) & B: Modbus-B (red)
USB	USB (type C plug) is located behind the plug at the bottom of modem. Use in non- hazardous locations only.
	Note: Users can connect the modem to the Power Supply and Tablet using a USB cable. However, the user cannot connect both the power supply and the tablet at the same time.

Setting up the modem

- The modem can be used by hand, fastened to a surface in any convenient orientation with the accompanying belt clip, or hung from a pipe, transmitter, or other solid objects with the included strap.
- To install the hanging strap, slide the end of the strap through the metal loop on the modem belt clip and then through the metal loop on the strap itself to attach the hanging strap.
- Pull the strap to verify it is securely attached to the modem, then use the hook and loop fasteners on the strap to fix it to any convenient and secure location.
- Do not use the strap to secure anything other than the modem.

Modem Ratings

Item	Rating		
Power Supply	4.5V supplied from 3 x AA NiMH 1.2V or 3 x Alkaline 1.5V batteries		
	and/or 5.0V USB		
Ambient Temperature	-20°C to +50°C		
Environmental	Pollution Degree 3, Overvoltage category II, maximum altitude 2,000 m		
Ingress Protection	IP64 (with USB plug and Battery Cover installed)		
HART or DE Loop Voltage	30V Maximum		
Modbus Common Mode Voltage	-7V to +12V		

Radio Transmitter Information

Notice of FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The modem contains a transmitter with FCC ID: SQGBT900.

Industry Canada (IC) Warning statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The modem contains a transmitter with IC identification 3147A-BT900.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage;

2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement

This device is compiles with SAR for general population/uncontrolled exposure limits in IC RSS- 102, and it is tested in accordance with the measurement methods and procedures specified in IEEE.

General Precautions and Battery Safety

General Precautions

The equipment's protection may be compromised, if the equipment is not installed in the manner specified by Honeywell.

The safety of any system incorporating the equipment is the responsibility of the assembler of the system.

Clean only with a soft damp cloth.

General Battery Safety

Only use the approved batteries listed. Carefully follow all instructions and warnings on the battery label and package. Using other batteries may void the hazardous location certification of the device.

Replace all the modem batteries at the same time. The replacement of a partial set or mixing of batteries from the different chemical systems exposes the device to the possibility of electrolyte leakage and damage through over-discharge of the lower capacity batteries.

Only recharge NiMH batteries that are designed specifically to be recharged. Do not recharge Alkaline batteries. It can cause leakage or rupture in rare cases.

Do not heat or open batteries. It may cause a risk of chemical burns or battery ruptures in rare cases.

Replace the batteries as soon as their performance becomes unsatisfactory.

Before installing fresh batteries, ensure that the contact surfaces in the modem battery compartment are visually clean and bright.

The batteries should be removed from the modem if they are not used for an extended period of time. The modem consumes a small amount of power while the batteries are installed, and the modem is in sleep mode.

Consider recycling the product and packaging materials. If possible, remove any batteries from the product first and recycle/dispose of them separately, in accordance with the battery manufacturer. recommendations.

Hazardous Locations

The VCON1 and VCON2 Honeywell Versatilis Communication Interface (including the cables, belt clip, hanging strap, and carry case) are approved for hazardous locations according to the CSA (Canada & USA), IECEx, UKCA, and ATEX. The battery charger, USB cable, and other included accessories not specifically listed are not approved for use in hazardous areas. See the documentation of the tablet device separately for hazardous locations information and conditions of use.

CERTIFICATION	VCON1	VCON2
	Class I, Division 1, Groups A,B,C,D; T4…T3	
CSA USA & Canada	Class I, Division 2, Groups A,B,C,D; T4…T3 with NIFW	Class I, Division 2, Groups A, B, C, D; T4…T3 with NIFW
		Class I Zone 2 AEx ic IIC T4T3
Certificate#	Class I Zone 0 AEx ia [ia Ga] [ia Da IIIC] IIC	Gc
21.80067249X	T4T3 Ga	
		Ex ic IIC T4T3 Gc
	Ex ia [ia Ga] [ia Da IIIC] IIC T4…T3 Ga	
IECEx Certificate# CSA 21.0032X	Ex ia [ia Ga] [ia Da IIIC] IIC T4…T3 Ga	Ex ic IIC T4T3 Gc

CERTIFICATION	VCON1	VCON2	
ATEX	II 1G Ex ia [ia Ga] [ia Da IIIC] IIC T4T3 Ga Certificate # CSANe 21ATEX2180X	II 3G Ex ic IIC T4T3 Gc Certificate # CSANe 21ATEX4148X	
UKCA	II 1G Ex ia [ia Ga] [ia Da IIIC] IIC T4…T3 Ga Certificate # CSAE 22UKEX1208X	II 3G Ex ic IIC T4T3 Gc Certificate # CSAE 22UKEX1209X	

ENTITY & NIFW PARAMETERS for VCON1 & VCON2			
INPUT PARAMETERS	OUTPUT PARAMETERS		
Ui or Vmax <u><</u> 30 V	Uo = 5.88 V		
li or Imax <u><</u> 300 mA	lo = 5.47 mA		
Pi or Pmax = 1.0 W	Po = 8.04 mW		
Ci = 0			
Li = 0			

VCON1 & VCON2 Modem Specific Conditions of use

Item	I Condition			
1	Batteries shall be removed, recharged (as applicable), and replaced only in non-hazardous areas.			
	The three batteries used in the equipment shall be of the same electrochemical system, cell design, and rated capacity and shall be made by the same manufacturer. The batteries must be of type Energizer NH15-2300 (HR6) NiMH AA 2300mAh Rechargeable, Duracell DX1500 (HR6) NiMH AA 2500mAh Rechargeable, Energizer E91 (LR6) Alkaline AA, or Duracell MN1500 (LR6) Alkaline AA. The device has a temperature Class according to the following table based on the battery type installed.			
2		Battery Type	Temperature Class	
		Energizer NH15-2300 (HR6) NiMH AA 2300mAh Rechargeable	Т3	
		Duracell DX1500 (HR6) NiMH AA 2500mAh Rechargeable	Т3	
		Energizer E91 (LR6) Alkaline AA	T4	
		Duracell MN1500 (LR6) Alkaline AA	T4	
3	For battery cover removal, the battery compartment should be inspected for electrolyte leakage. If batteries are found to have leaked electrolyte within the battery enclosure, the unit must be removed from service and should be discarded or returned to the manufacturer immediately.			. If
4	Connection to the USB port is only allowed in non-hazardous areas. Opening the USB connector cover in hazardous areas is not permitted.			or



Application Best Practices

Configuration Database Coordination

In a HART network, there can be a primary host (ex: a DCS host) connected to the same device along with the Configurator App (a secondary host). In such a network, the user should coordinate with the primary host user to avoid data conflicts. When a parameter changes in one host, the other host may be alerted to a configuration change but will not know which parameter changed. It is then necessary to refresh any cached data. For this reason, the user should always coordinate changes with both hosts to avoid conflicts and to determine when it is prudent to reload cached or locally stored values.

Security Considerations

Security and Limitations

Honeywell Versatilis, like all handheld configurators, is intended to be used as an occasional offline service and diagnostic tool for field devices. It is not intended to be used as a component of a process infrastructure for the purpose of continuous monitoring and control.

The Honeywell Versatilis configurator is a pass-through device that does not support user authentication or authorization and only supports a limited audit trail. It is the responsibility of the end-user to establish measures that are designed to deny unauthorized access and ensure the physical security of the Honeywell Versatilis and relevant field devices.

Honeywell offers a solution for secure operations by integrating Honeywell Versatilis Configurator with Honeywell Versatilis Lifecycle solution. Contact your Honeywell sales representative for more information.

A user must assess security considerations for the use of a mobility device within a process area and provide necessary restrictions on the use of the mobility device with other applications and network connections.

Bluetooth Connection Security

The Honeywell Versatilis Configurator app and mobility device are paired to the Modem using Secured Simple Pairing to establish a key for data encryption. The Bluetooth Serial Port Profile is then used as a standard interface to the Honeywell Versatilis applications with data passed between the tablet and the modem using the encryption key generated during the pairing process.

Pairing to the modem requires physical access as the pairing mode is only enabled for a short time period after powering the modem. To minimize opportunities for pairing of the modem to unauthorized host devices, the user should turn off the modem and disconnect it from any transmitter when not in use.

For security assessment, the wired connection of the modem to a transmitter as well as powering on the modem are regarded as physical interactions by a local user to authorize access.

Windows 10 IOT Enterprise SAC

Windows 10 IOT SAC (Semi-Annual Servicing Channel) feature updates are available as soon as Microsoft releases them, typically every six months. Each feature update release will be supported and offer quality updates for 18 months from the time of its release. For more information on Windows 10 IOT SAC, please consult Microsoft.

The tablet security settings are preconfigured in accordance with CIS* level 1 policies. These policies are intended to lower the risk of security issues while keeping the device usable for most business applications. Next Generation

Windows Security-related best practice recommendations are applied for kernel mode integrity. Windows Defender Application Guard maintains Microsoft standard configuration.

The user may require additional security settings based on their specific application. It is up to the user to fully evaluate security concerns for the use of the tablet in the intended application and trust zone.

Application Logs

Open the Honeywell Versatilis Configurator app, tap **settings** > **log level**. From the dropdown list, select the log levels.

The Honeywell Versatilis Configurator app supports different log levels:

- Information
- Debug
- Error
- Warning

The Honeywell Versatilis Configurator app captures (the interactions with the modem, runtime errors & connectivity problems, exceptions & failures, submission of user-generated content and modification of configuration files) based on the log level selection/configured.

It is advised to share or review the logs with Honeywell, if any recent configuration changes may have adversely affected application operation.

For more information on log levels, see Honeywell Versatilis Configurator user manual.

User General Responsibilities

The user shall understand that:

- 1. No network, system, device, hardware, software, or component can be fully secure.
- 2. The user is responsible for the evaluation of security requirements based on content and use in the deployed environment.
- 3. The user understands that threats and security best practices will evolve over time, and it is the user's responsibility to maintain necessary security for their devices and applications.
- 4. For better user experience, it is recommended not to install the Honeywell Versatilis Configurator App on rooted platforms.
- 5. The user should follow best practices for the respective platforms for operating system updates. For Android platforms, the user may create a Google account to maintain platform security.

Security Assistance

Security must be considered for the specific threats and vulnerability for each application as well as the environment in which the application is deployed. Help for understating security issues and defenses can be found at the Honeywell Cyber Security website:

https://www.honeywell.com/en-us/honeywell-forge/cybersecurity

Reporting a security vulnerability

For submission, a security vulnerability is defined as a software defect or weakness that can be exploited to reduce the operational or security capabilities of the software. Honeywell investigates all reports of security vulnerabilities affecting Honeywell products and services.

To report a potential security vulnerability against any Honeywell product, please follow the instructions at: https://www.honeywell.com/us/en/product-security

Submit the requested information to Honeywell using one of the following methods:

• Send an email to <u>PSIRT@Honeywell.com</u>.

or

Contact your local Honeywell Technical Assistance Center (TAC). To find your local CCC (Customer Contact Center) visit the website:

https://process.honeywell.com/us/en/contact-us.

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Notices

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CIS* (Center for Internet Security) is a non-profit organization that provides tools and guidance for internet related security and is not affiliated with Honeywell. You will also find additional information on CIS at: www.cisecurity.org.

European D	Directives Information (CE Mark)]	UK Regulations Information (UKCA Mark)		
CE	Honeywe		UK CA	Honeywell	
50171637 Revision: B				VCONUKCADOC Revision: A	
EU DECLARATION OF CONFORMITY				UK DECLARATION OF CONFORMITY	
We, Honeywell Interr	national Inc.		We, Honeywell Interna	ational Inc.	
declare under our sole	responsibility that the following products,				
	Honeywell Versatilis Configurator VCON1 & VCON2		declare under our sole responsibility that the following products,		
to which this declaration shown in the attached	on relates, is in conformity with the relavent Union harmonization legislation as schedule.		to which this declaratio	Honeywell Versatilis Configurator	
Assumption of conforn applicable or required, schedule.	nity is based on the application of the harmonized standards and when a European Community notified body certification, as shown in the attached		attached schedule. Assumption of conform required, a UK notified	ity is based on the application of the relevant standards and when applicable or body certification, as shown in the attached schedule.	
Signed for and on beha	alf of:		Signed for and on behal	If of:	
MWillians			MWillians		
Michael Williams, Lead Honeywell Process Soli 500 Brooksbank Ave	d Engineer utions		Michael Williams, P.Eng., Engineering Manager Honeywell Process Solutions		
North Vancouver, BC, V	V7J 3S4, CANADA		North Vancouver, BC, V	7J 3S4, Canada	
	Koneywell SCHEDULE 50171637 Revision: A			SCHEDULE VCONUKCADOC Revision: A	
Radio Equipment D	irective (RED) 2014/53/EU		Radio Equipment Regulations 2017		
Radio & EMC Compliance	e		Radio & EMC Compliance		
EN 61326-1: 2013 EN 301 489-1 v2.2.0	Electrical Equipment for Measurement, Control and Laboratory Use – EMC Electromagnetic compatibility and Radio Spectrum Matters (ERM); EMC standard		EN 61326-1: 2013 EN 301 489-1 V2.2.0	Electrical Equipment for Measurement, Control and Laboratory Use – EMC Electromagnetic compatibility and Radio Spectrum Matters (ERM); EMC standard for radio equipment and services; Part 1: Common technical requirements Electromagnetic compatibility and Padio concertum Matters (ERM): MC standard	
EN 301 489-17 v3.2.4	To halo equipment and serves, fail 1 common equipments Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 17. Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high negregations and services.		EN 300 328 V2.2.2	For radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment Wideband transmission systems; Data transmission equipment operating in the 2,4 CH 18M bend	
EN 300 328 V2.2.2	Wideband transmission systems; Data transmission equipment operating in the 2,4GHz ISM band		EN 62311:2008	RF exposure	
EN 62311:2008	RF exposure 4/34/EU		Equipment and Prote Atmosphere Regulat	ective Systems Intended for use in Potentially Explosive tions 2016	
Type Examination	n Certificate No: CSANe 21ATEX2180X - Intrinsically Safe "ia" Certificate		Type Examination	i Certificate No: CSAE 22UKEX1208X - Intrinsically Safe "ia" Certificate N IEC 60079-0: 2018 - EN 60079-11 : 2012	
EN 6007 Type Examination EN 6007	9-0: 2018 EN 60079-11: 2012 n Certificate No: CSANe 21ATEX4148X - Intrinsically Safe "ic" Certificate 9-0: 2018 EN 60079-11: 2012		Type Examination Certificate No: CSAE 22UKEX1209X - Intrinsically Safe "ic" Certificate EN IEC 60079-0: 2018 EN 60079-11 : 2012		
ATEX Notified Body for EC Type Certificates CSA Group Netherlands B.V. Notified Body Number: 2813 Utrechtseweg 310, 6812 AR, Arnhem, The Netherlands			UK Approved Body for Product Certificates CSA Group Testing UK Ltd. [Approved Body Number 0518] Unit 6, Hawarden Industrial Park Hawarden Descide CHS 315		
ATEX Notified Body for Quality Assurance DEKRA Certification B.V. Notified Body Number: 0344 Meander 1051, 6825 MJ Arnhem, The Netherlands			UK Approved Body for Quality Assurance DEKRA Certification UK Itd. [Approved Body Number 8505]		
Restriction of Hazar	rdous Substances (RoHS) Directive 2011/65/EU & EU 2015/863		Stokenchurch, HP	14 35X	
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances		The Restriction of th Equipment (RoHS) R	e Use of Certain Hazardous Substances in Electrical and Electronic Regulations 2012	
The Honeywell Versatilis Configurator VCONI & VCON2 communication configurators, based on supplier declarations, material declarations, technical judgement, and/or analytical test results, are compliant to Directive 2011/65/EU & 2015/653 amendment of the European Pariliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.			ENIEC 63000;2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances The Honeywell Versatilis Configurator VCON1 & VCON2 communication configurators, based on supplier declarations, material declarations, technical judgement, and/or analytical test results, are compliant to UK Regulations on the restriction of the use of certain hazardous substances in electrical and electronic equipment.		
	2012			2 of 2	

Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

ASIA PACIFIC

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Email: (Sales) <u>FP-Sales-</u> <u>Apps@Honeywell.com</u> or (TAC) <u>hfs-tac-</u> <u>support@honeywell.com</u>

Specifications are subject to change without notice.

For more information To learn more about SmartLine Transmitters visit <u>https://process.honeywell.com/</u> Or contact your Honeywell Account Manager

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34-ST-25-69, Rev.5 December 2022 ©2022 Honeywell International Sarl.