# HONEYWELL **VERSATILIS TRANSMITTER Multi-Variant Sensing**

Honeywell Versatilis<sup>™</sup> Transmitter is a multi-variant sensing platform based on the latest LoRaWAN<sup>®</sup> protocol communication technology. Its inherently low-power compact design coupled with quick & easy installation, and commission helps manufacturers to deploy them at scale with the lowest CAPEX and negligible OPEX. These sensors are designed to monitor and predict the health of rotating equipment like motors, pumps, blowers, fans, compressors, and gearboxes. In addition, they can be deployed to remotely monitor the position of manual valves, the health of steam traps, and the surface temperature of static process equipment. They can also be deployed to monitor environmental conditions in life science facilities.



**MEASUREMENT PARAMETERS:** 

Surface	Ambient	Ambient	
Temperature	Humidity	Pressure	Figure 1– Honeywell Versatilis Transmitter
Vibration	Audio	Ambient	
VIDIATION	Acoustics	Temperature	

# SENSORS AND COMMUNICATIONS:

The Honeywell Versatilis platform contains a suite of sensors encompassing versatile sensing parameters such as pressure, temperature, humidity, 3-axis accelerometer, and audio acoustics MEMS to provide insightful measurements. Sensors on-the platform are selected to cover a broad frequency spectrum enabling adequate sensing coverage of process and physical phenomena. Sensor fusion analysis on the acquired measurements can be performed. Any specific parameter is customizable in either software or hardware according to the requirement of a specific application. Each measured parameter contributes a unique dimension thereby augmenting the system into a multi-dimension sensing platform. Sensor data can be transferred over the LoRaWAN® network which is protected through secure key authentication. The Honeywell Versatilis Transmitter can be configured to notify the application through Event Triggers and FFT (Fast Fourier Transform) Triggers.

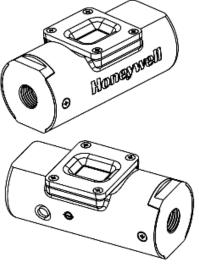


Figure 2-Assembly



# FEATURES

PARAMETER	DESCRIPTION
Pressure Sensor	900 to 1100 hPa (361.33 to 441.62 in WC)
Humidity	0 to 100 %RH
3-axis Accelerometer	+/- 16G, 2500Hz Bandwidth
Temperature Sensor	-40°C to +80°C
Velocity Measurement	Available as per ISO 20816-3
Speed Measurement	0 to 60,000 RPM
Acoustic Sensor	Bandwidth 20 to 20kHz, maximum 100 dB SPL
Vibration and Acoustics data	in FFT format for further analysis to predict equipment failure and anomaly detection.
Raw data capture and .CSV fil	e generation for further analysis by the users.
2.4 GHz, Bluetooth Low Energ	gy 5.0 Communication.
LoRaWAN® Class-A	For information, see "Honeywell Versatilis Transmitter LORAWAN® Frequency and channel details" on PageNo.8
LED Device Status	Green and Red LEDs (for more information, see Honeywell Versatilis Transmitter User manual)
Device Diagnostics	Battery status, Sensor Health, Range Alarm.
Battery life	5 years with 30 minute update rate
Operating Temperature	-40°C to 80°C (-40 °F to +176 °F)
Measuring Parameters	Ambient Temperature, Ambient Pressure, Surface Temperature, Humidity, Vibration, and Acoustics
Derived Parameters	Speed and Velocity
Physical Dimensions	W: 46 mm (1.81 Inches) x H: 100 mm (3.93 Inches)
Weight	180 grams (0.39 lb)
Multiple mounting options	Adhesive adapter. Magnetic adapter for ease of installation. Screw mount adapter with M6 screw and nut arrangement.
Data Security and Encrytion	LoRaWAN industry standard security AES256 LoRa Encryption.

# MEASUREMENT PARAMETERS - RANGE AND PERFORMANCE SPECIFICATIONS

PRESSURE SENSOR			
PARAMETER	RANGE	UNITS	ACCURACY
Pressure	0.3 to 1.1	Bar	0.1% of span

AMBIENT TEMPERATURE SENSOR				
PARAMETER	RANGE	UNITS	ACCURACY	
Ambient Temperature	-40 to -80 °C (-40 to -112 °F)	°C (°F)	0.5/1 °C	

AUDIO ACOUSTICS SENSO	R	
PARAMETER	RANGE	UNITS
Acoustic	20 to 20,000	Hz (FFT)

SURFACE TEMPERATURE SENSOR			COMMUNICATIONS TECHNOLOGY SPECIFICATIONS				
PARAMETER RANGE UNITS ACCURAC			ACCURACY	BLUETOOTH LOW ENERGY (	BLE) TECHNOLOGY: BLUETC	LUETOOTH® 5.0	
Temperature	-40 to +80	°C (°F)	0.5/1 °C	DESCRIPTION	RANGE	UNITS	
HUMIDITY SENSOR				Frequency	2360 to 2500	MHz	
PARAMETER	RANGE	RANGE UNITS ACCURACY	RF Impedance	50	Ohms		
Humidity	0 to 100	%RH	+/- 3%	/- 3% RX Sensitivity -		dBm	
3D VIBRATION SENSOR			RSSI Step Size	2.4	dB		
PARAMETER	RANGE	UNITS	ACCURACY	TX Power	-17 to 0	dBm	
3D Vibration/ Acceleration	25 to 2500Hz (+/-	FFT	+/-1dB	TX Power Step Size	2	dB	
	16G)			Range	<50	Meters	

# CERTIFICATIONS

PARAMETER	DESCRIPTION
PARAMETER Global Regulatory Certifications	DESCRIPTIONCE (EEA & EFTA Countries)EMC: EN 61326-1, EN 61326-2-3, ETSI EN 301 489-1,ETSI EN 301 489-3 & ETSI EN 301 489-17RED: ETSI EN 300 220, ETSI EN 300 328LVD: IEC/EN 61010-1EU RoHS directiveFCC Approval (United States),FCC Part 15ISED Approval (Canada)UKCA Approval (United Kingdom)LoRaWAN CertifiedBluetooth QualifiedIECEx Intrinsic Safety Approval (Zone 0)ATEX Intrinsic Safety Approval (Class I/Division 1)UKCA Intrinsic Safety Approval (Zone 0)CCOE Approval (India)

LONG RANGE (LORA®) COMMUNICATION TE	CHNOLOGY: LORAWAN® CLASS-A		
DESCRIPTION	RANGE	UNITS	PERFORMANCE CONDITIONS
Frequency	868 - Europe 915 - North America	MHz	
	-117.5	dBm	SF = 6
	-122.5	dBm	SF = 7
	-125.5	dBm	SF = 8
RX Sensitivity (125 kHz BW)	-128.5	dBm	SF = 9
	-131.0	dBm	SF = 10
	-133.5	dBm	SF = 11
	-135.5	dBm (Max)	SF = 12
TX Power	14	dBm	LoRaWAN® Region Specification

## PHYSICAL DIMENSIONS

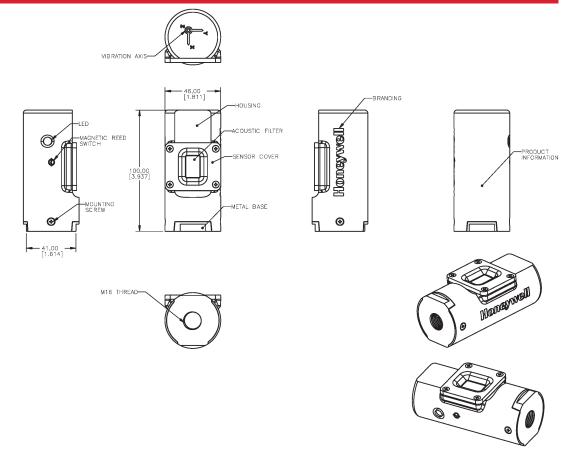


Figure 3– Physical Dimensions

### MOUNTING CONSIDERATIONS

**Adapters**: The Honeywell Versatilis Transmitter comes with a variety of mounting options. The mounting options are magnetic adapter, adhesive adapter, and screw mount adapter.

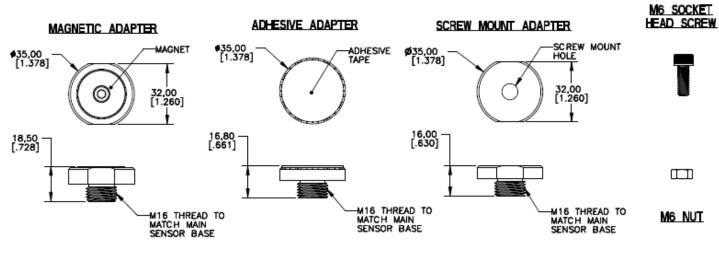
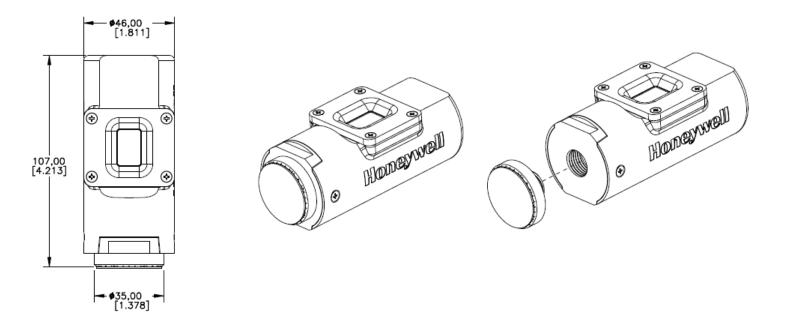
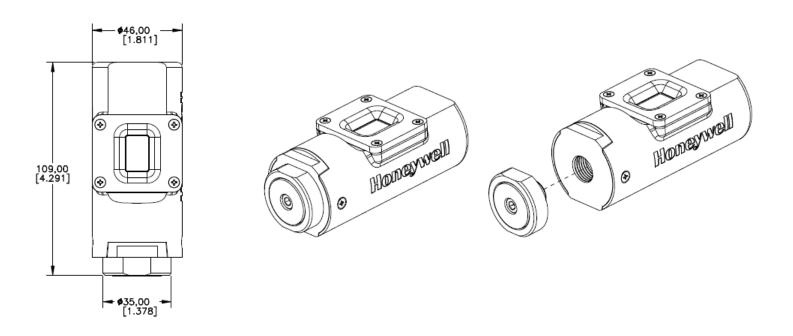


Figure 4– Adapters





Magnetic Adapter (Attach to the machine with magnetic pull force).



**Screw mount Adapter -** Preferred mounting for vibration and Surface Temperature applications. (M7 screw & nut arrangement to clamp on machine).

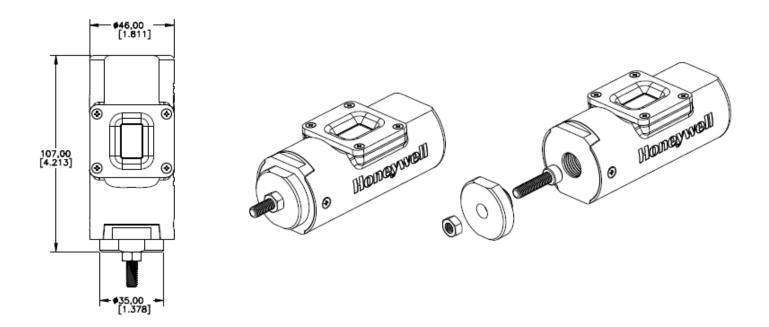


Figure 7– Screw mount

Other Custom Mounting Adapter - Available based on request.

MATERIAL CONSRTUCTION	
Top housing	Polycarbonate housing
Bottom housing	Metal Base – Aluminum ; 6061, NPT/Magnetic Adapter – SS304

### HONEYWELL VERSATILIS CONNECT - DEVICE CONFIGURATION APPLICATION

Honeywell Versatilis Transmitter is an intuitive application that can be installed on mobile devices and tablets running iOS, Android, and Windows platforms. The application is compatible to work with the Honeywell Versatilis tablet.

### **Key Features:**

• Secure log on

• Connects Via BLE

Graphical user interface

• Identify Device as well as Asset

• Connect and Configure Honeywell Versatilis Transmitters in minutes

• Read real time as well as historical data

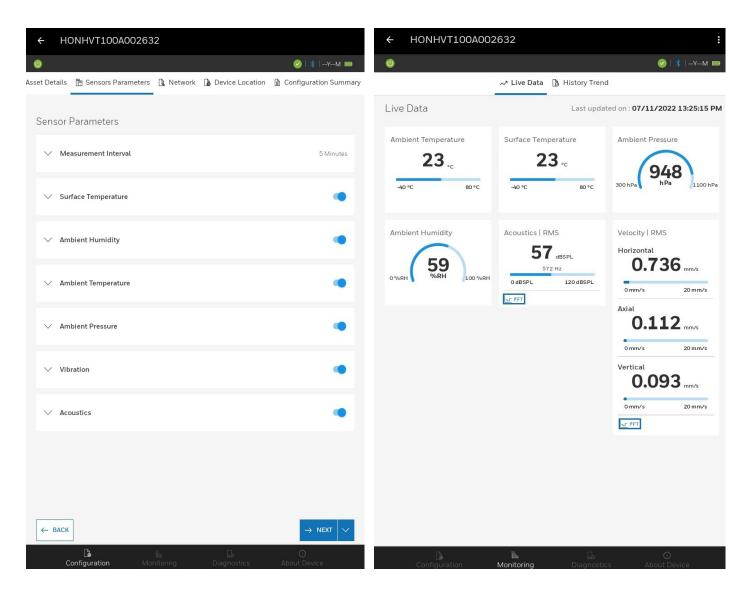


Figure 8-Sensor parameters and Live Data dashboards

# HONEYWELL VERSATILIS TRANSMITTER LORAWAN® FREQUENCY AND CHANNEL DETAILS

CHANNEL PLAN	FREQUENCY	COUNTRY AND REGIONS
AS923-3	915 – 921 MHz 915 - 918 MHz	
EU863-870	863 - 870 MHz 862 - 870 MHz 862 - 876 MHz	Africa
IN865-867	865 – 868 MHz	
EU863-870	863 – 870 MHz	
AS923-1	922 - 925.0 MHz	Asia
AU915-928	915 - 928 MHz	ASId
AS923-3	915 – 921 MHz	
AU915-928	915 to 928 MHz	Argentina
AS923-1	915 to 928 MHz	Australia
AU915-928	915 to 926 MHZ	Australia
AU915-928	915 to 928 MHz	Brazil
AU915-928	915 - 928 MHz	Chile
CN470-510*	430 - 510 MHz	China*
EU863-870	863 to 870 MHz 863 - 873 MHz 864.4 - 868.6 MHz 869 - 869.2 MHz 869.4 - 869.65 MHz 869.7 - 870 MHz	Europe
AS923-3	915 - 918 MHz	
IN865-867	865 - 867 MHz	India
AS923-1	015 000 144	
AU915-928	915 - 928 MHz	New-Zealand
IN865-867	864 - 868 MHz	
AS923-1	916 – 919 MHz	
AS923-1	919 – 924 MHz	Malaysia
US915	902 to 928 MHz	
AU915-928	915 - 928 MHz 902 - 928 MHz	North America
AS923-1	920.5 - 928 MHz	
AS923-3	915 - 921 MHz	
AU915-928	915 - 928 MHz 915 - 930 MHz 902 - 928 MHz	
AS923-1	920 - 925 MHz	South America
EU863-870	863 - 870 MHz	
AS923-1	920 - 925 MHz	Singapore, Thailand
KR920	920.9 to 923.3 MHz	South Korea
EU863-870	863 – 875.8 MHz	
AS923-3	915 – 921 MHz	Saudi Arabia (SA)

\* This can be added in a future releases.

# Honeywell

# Model HVT100 & HVSS100 Honeywell Versatilis Family

Section XX Page: HVT100 & HVSS100 Effective Date: Nov 23, 2022

# Model Selection Guide with Price Data

Honeywell Proprietary

Model Selection Guide: 34-VT-16-01, Issue 1, Rev 13

HYTHVS   Image   Image     KEY NUMBER   Honeywell Versatilis Transmitter   0000     KEY NUMBER   Honeywell Versatilis Transmitter   Selection     Honeywell Versatilis Transmitter   Honeywell Versatilis Transmitter   Honeywell Versatilis Transmitter     TABLE I   Measuring Parameters   Honeywell Versatilis Signal Scott - Emissions Detector   HVT100     TABLE II   Measuring Parameters   Moneywell Versatilis Signal Scott - Emissions Detector   A01   e     D. Energy Harvesting   No Energy harvesting   Mot First, Acoustics - Audio   A01   e     Ves Solar   Surface Temperature and Vibration   0   1   -     TABLE III   Housing (Poly carbonate)   G   -   -     Resource Conton - Housing (Poly carbonate)   G   -   -   -     B. Mounting   Hagaetic Adapter   Mo   -	Key	equals the sum of prices f	or all selections made. IV V	VI VII	VIII	IX	the sum of pri for all selection		
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Honeywell Versatilis Signal Scout - Emissions Detector     HrvStrol       TABLE I     Measuring Parameters       Anb. PTH, Acoustics-Audio     A01     6       Verset     Surface Temperature and Vibration     A03     e       TABLE II     Energy Harvesting     A03     e       b. Energy method     No Energy harvesting     0     *       yes Solar     1     2     *       TABLE III     Energy Harvesting     0     *       westred     Standard Housing (Poly carbonate)     2     *       a.Housing     Standard Housing (Poly carbonate)     5     -     -       c.Binet Monitoring     Thread     -	KEY NUMBER		Honeywell	Versatilis Transm	nitter		Selection		_
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TABLE IV   Agency Approvals (see data sheet for Approval Code Details)     CSAVATEX/IECEX/UKCA Intrinsically Safe, Non-incendive, & Dustproof*   1     CCoE Intrinsically Safe & Non-incendive   2     NEPSI Intrinsically Safe & Non-incendive   3     NEPSI Intrinsically Safe & Non-incendive   4     INMETRO Intrinsically Safe & Non-incendive   5     KOSHA Intrinsically Safe & Non-incendive   5     INMETRO Intrinsically Safe & Non-incendive   5     EAC Intrinsically Safe & Non-incendive   5     EAC Intrinsically Safe & Non-incendive   6     Common Approval label for all Global agency approvals   7     TABLE V   Wireless Communication     Band   915MHz – Noth and South America, Canada, Australia, Japan     914 to 928MHz – Australia, Japan, Malaysia, Indonesia   3     470MHz to 510MHz – China   4     TABLE VI   Manufacturing Specials     Factory   Factory Identification     00000   *     testriction Letter   Available Only with   Not Available with     d   II   A02     b   Select Only one option from this group   I     e   I   A02,A04 to	binounung	Adhesive					_ A	*	
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LoRA Band <sup>868MHz</sup> – Europe, India, Africa, Russia, UK, Parts of Middle East <sup>915MHz</sup> – North and South America, Canada, Australia, Japan      914 to 928MHz – Australia, Japan, Malaysia, Indonesia <sup>914</sup> to 928MHz – Australia, Japan, Malaysia, Indonesia      470MHz to 510MHz – China <sup>915</sup> – China      TABLE VI   Manufacturing Specials      Factory   Factory Identification      estriction Letter      Available Only with Not Available with      C   I   A06,A07     d   III   S_     III   A02     b   Select Only one option from this group     e   I   A02,A04 to A19     f   I   A01,A03								7	
LoRA Band   915MHz – North and South America, Canada, Australia, Japan   2   *     914 to 928MHz – Australia, Japan, Malaysia, Indonesia   3   *     470MHz to 510MHz – China   4   *     TABLE VI Manufacturing Specials     Factory   Factory Identification   0000   *     Not Available Only with Not Available with     Table   Selection(s)   Table   Selection(s)     c   1   A06,A07   0     d   III   S_   III   _M , _A     i   A02   i   A02,A04 to A19   i     f   I   A01,A03   i   A02,A04 to A19				K. Parts of Middle	East		1	*	-
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TABLE VI Manufacturing Specials       Factory     Factory Identification     0000 *       Restriction Letter       Available Only with     Not Available with       C     I     A06,A07       d     III     S_       I     A02       b     Select Only one option from this group       e     I       f     I       A01,A03     I	LORA Band	914 to 928MHz - Aust	ralia, Japan, Malaysi	a, Indonesia				1 *	
Factory     Factory Identification     0000 *       Available Only with     Not Available with       Table     Selection(s)     Table     Selection(s)       c     1     A06,A07		470MHz to 510MHz -	China				4	*	
Available Only with Not Available with   Table Selection(s) Table Selection(s)   c I A06,A07 III   d III S_ III _M, _ A   b Select Only one option from this group I A02,A04 to A19   f I A01,A03 I			s						
Construction Letter     Table     Selection(s)     Table     Selection(s)       c     I     A06,A07     III    A       d     III     S_     III    M,A       b     Select Only one option from this group     I     A01,A03     A02,A04 to A19	Factory	Factory Identification					0000	*	-
Table     Selection(s)     Table     Selection(s)       c     I     A06,A07     III       d     III     S_     III     _M, _ A       I     A02     III     _M, _ A       b     Select Only one option from this group     I     A02,A04 to A19       f     I     A01,A03     III     III	estriction Lette	Available C	only with	Not Ava					
d     III     S_     III     _M,_A       I     A02     III     _M,_A       b     Select Only one option from this group     III     A02,A04 to A19       f     I     A01,A03     III     A02,A04 to A19		Table		Table	Selection(s)				
I     A02       b     Select Only one option from this group       e     I       f     I       A01,A03		-							
b Select Only one option from this group   e I   f I   A01,A03	d			III	_M , _ A				
e I A02,A04 to A19 f I A01,A03	•	-							
f I A01,A03	D	Select Only one opti-	on from this group		A02 A04 to A40				
					T AUZ.AU4 to A19 1				
	е	1	A01 A02						

Honeywell Versatilis Tx Mounting Kit

Kit Number 51157048-500

# ACRONYMS

ACRONYMS	DEFINITION
°C	Degree Celsius
°F	Fahrenheit
ATEX	Appareils destinés à être utilisés en Atmosphères Explosives
BLE	Bluetooth® Low Energy
CCOE	Chief Controller of Explosives
САРЕХ	Capital Expenditures
dBm	Decibel-Milliwatts
EMC	Electromagnetic Compatibility
EU	European Union
ETSI	European Telecommunications Standards Institute
FCC	The Federal Communications Commission
FFT	Fast Fourier transform
G	Acceleration (9.81 m/ s²)
hPa	Hectopascal
Hz	Hertz
in	inch
iOS	iPhone Operating System
lloT	Industrial Internet of Things
ISED	Innovation, Science and Economic Development
IECEx	International Electrotechnical Commission System for Certification
kHz	Kilohertz
km	Kilometre
kPa	Kilopascal
lb	Pound
LoRaWAN®	Low Range Wide Area Network Protocol
LVD	Low Voltage Directive
MEMS	Micro-electromechanical systems
MHz	Megahertz
NPT	National Pipe Thread
OPEX	Operating Expenses
Ра	Pascal

ACRONYMS	DEFINITION
RED	Radio Equipment Directive
RF	Radio frequency
RSSI	Received Signal Strength Indicator
RX	Receiver
ТХ	Transmitter
UKCA	UK Conformity Assessed

#### For more information

To learn more about Honeywell's products, visit www.process.honeywell.com or contact your Honeywell account manager.

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