WISE-2461

RS-485 Modbus 6kHz@3axis Vibration Sensor

STARTUP MANU

Overview

Thank you for purchasing the WISE-2461 vibration sensor. This quick start guide is intended to help you deploy your new sensor. The guide contains basic information on the power and application wiring. Should you require additional instructions, please refer to the user manual.

Input Power Requirement

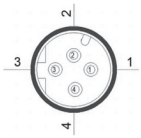
WISE-2461 is designed for 10 – 30 Vdc range power source

Packaging List

- 1 x WISE-2461 Sensor
- 1 x Quick start manual
- 1 x Mounting stud D=1/4-28x9.4L
- 1 x Mounting pad
- 2 x Screws M3x8L

Quick Start

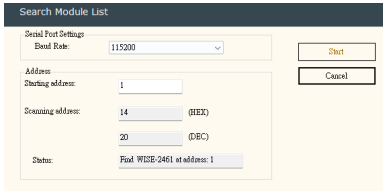
1. Connect the sensor to your computer via any serial to USB converter. Do make sure all the wired connection are correct before power your WISE-2461. Pin define below for reference.



Pin Number	Pin Name
1	+VS
2	Data+
3	-VS
4	Data-

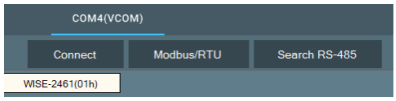
2. Open WISE Studio and press [Go to Configuration]

3. Click [Search RS-485] and press [Start]. If WISE Studio found WISE-2461, it will show the WISE-2461 address in status column.



PS: Default RS-485 setting of WISE-2461 as below
- Baud Rate: 115200
- Slave ID(Starting address): 1

4. Cancel the [Search Module List] window, and click [WISE-2461(01H)] to link WISE-2461 and the web configuration page will appear.



Notes

For more information on this and other Advantech products, please visit our website at:

https://www.advantech.com

For technical support and service:

https://www.advantech.com/en/support/

The startup manual is for WISE-2461 product.

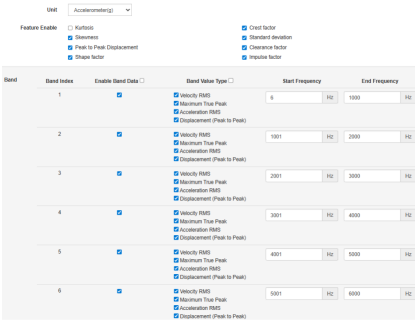
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Quick Start

5. Click [Information] and check the model, S/N, firmware version are correct or not.

6. Go to [I/O Status] and click [Configuration]. On this page, you can configure the vibration units for the X, Y, and Z axes and enable or disable the calculation for each feature value. Furthermore, the WISE-2461 allows users to define up to 6 custom frequency bands for each axis. Based on these settings, the device can calculate the Velocity RMS, Acceleration Peak, Acceleration RMS, and Displacement within each specified frequency range.

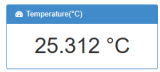


7. Go to [I/O Status] and click [Status].

   1) You can view the vibration data for X, Y, and Z axes, along with the vibration data in specific frequency bands and temperature readings on this page.

	X	Y	Z
Velocity RMS (mm/s)	0.04	0.03	0.05
Maximum True Peak (g)	0.05	0.04	0.05
Acceleration RMS (g)	0.01	0.00	0.01
Kurtosis	-0.02	0.00	-
Crest Factor	9.13	7.82	7.78
Skewness	-0.30	-0.14	-
Standard Deviation	0.01	0.01	-
Peak to Peak Displacement (um)	1.00	1.00	1.00
Clearance Factor	6.85	5.53	-
Shape Factor	0.63	0.59	-
Impulse Factor	5.77	4.65	-





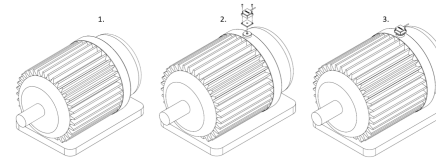
Product Image



Caution

1. Precision Instrument Inside, please handle with care.

2. The magnetic/metal base needs to be fixed on the facility first, WISE-2461 locks on second.



3. Make sure WISE-2461 is well packed by bubble bag in the storage environment.

4. To prevent damage to the sensor, tensile stresses must be avoided under all conditions.

5. Do make sure the pin connections are all correct before power on the sensor