WISE-2460

10KHz@1-axis Smart Vibration Sensor



Features

- RS-485 Serial communication through Modbus/RTU protocols
- 10KHz@1-axis frequency detection range
- Velocity RMS, acceleration RMS, acceleration Peak, displacement, several measurement vibration data
- Support max 10 customize detection ranges between 5 ~ 10,000Hz
- ISO 10816/20816 compliant
- Supports wide temperature -20 ~ 105°C
- IP68 enclosure design
- Supports Time waveform for 3rd party diagnosis software service

Introduction

WISE-2460 is a robust RS-485 smart vibration sensor integrated with an ARM Cortex-M7 processor, 10KHz@1-axis high detection range accelerometer and temperature sensor. This powerful computing device balances the bandwidth between edge devices and the application service on the user side.

WISE-2460 builds-in several measurements of vibration, such like velocity RMS, acceleration RMS, acceleration Peak, displacement and so on. By using Advantech WISE Studio utility, users can easily config all the setting, like ISO 10816 and 20816 alarm threshold setting, customize the 10 detection ranges between 5 ~ 10,000Hz and others.

Common Specification

General

Power Input	10 ~ 30V_{DC}
LED Indicator	Status, TX, RX
Configuration Interface	RS-485 (Modbus/RTU)
IP Class	IP68
Mounting	Stud mount, mounting pad and adhesives
Dimension (W x H x D)	58.4 x 36.7 x 40 mm
Certification	CE

Environment

Operating Temperature	-20°C ~ 105°C
Operating Humidity	10% ~ 95% RH
Storage Temperature	-25°C ~ 120°C
Storage Humidity	5% ~ 95% RH

1-Axis Accelerometer Sensor

Axis	Z
Frequency Range	5~10000Hz
Amplitude Range	±50g
Statistical Time-Domain	Velocity RMS
Output Data Rate	32768Hz
Accuracy	5-4000Hz (5%); 4001~10000Hz (35%)
Noise	25 μg/√Hz in ±50 g range
Sensitivity Change Due to Temperature	±5%

Ordering Information

WISE-2460-MA	10KHz@1-axis Smart Vibration Sensor

Accessories

25F7000004N000	Magnet base D30XH9mm for WISE-2460 installation
WISE-2410-MTB01	Metal base for WISE-2460 installation
1700028162-01	M12, A-code, 4 pin, Female with 1M cable
1700037259-01	M12, A-code, 4 pin, Female with 5M cable
BB-RPS-V2-WR2-US	Power Supply, 12V/1A, US plug
BB-RPS-V2-WR2-EU	Power Supply, 12V/1A, EU plug

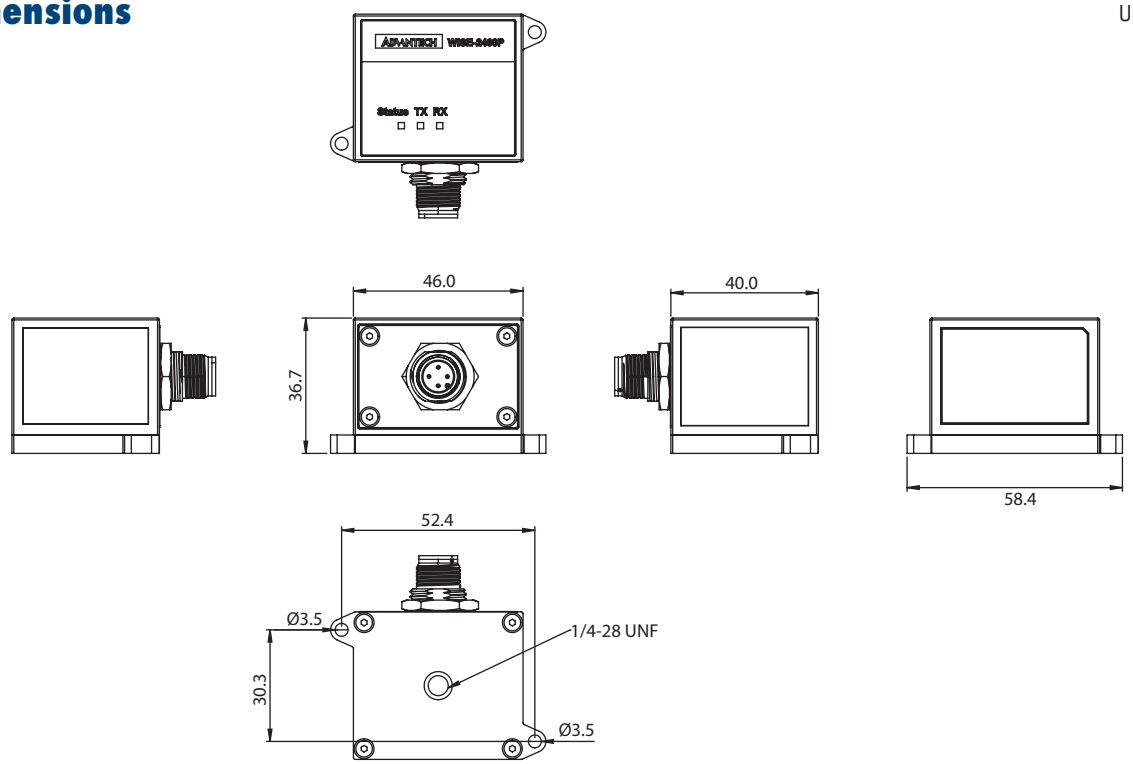
Wireless Module

WISE-4051-B	2.4G WiFi IoT Wireless I/O with 8DI/1RS-485

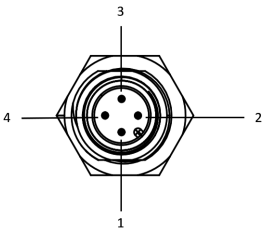
All product specifications are subject to change without notice.
Last updated: 11-Nov-2026

Dimensions

Unit: mm



Pin Define



WISE-2460 Pin Number	Pin Name	Pin Description
1	+VS	Input power V+
2	Data+	RS-485 Data+
3	-VS	Input power V-
4	Data-	RS-485 Data-

1700028162-01&1700037259-01 Pin Number	Wire Color
1	Brown
2	White
3	Blue
4	Black