



Specifications

Display	: LCD Display
Power Consumption	: 3W @ 12V DC
Power Supply	: 12 ~ 30V DC
Operation Temperature	: -20 ~ +70°C
Storage	: 16 GB Micro SD Card (expandable)
RTC Accuracy	: ±60 s / year
Time Calibration	: NTP or GPS (optional)
Sensor Type	: Tri-axial geophone (built in or externally connected)
ADC Resolution	: 3-channel @ 24-bit
CPU	: ARM1176JZF-S 700 MHz
Dynamic Range	: 130 dB
Measuring Range	: 28.8 V/m/s ±7.5 %
Frequency Response	: 1 ~ 250 Hz
Sampling Rate	: 100, 200, 500, 1000 sps
Output	: Ethernet, Compatible with Modbus Protocol (RTU or TCP / IP)
Built-in Watch Dog Function	: ±10s
Network Module	: 10/100 Base -TX Ethernet Controller
Algorithms	: DIN 4150-3
Waterproof	: IP67
Dimension (LxWxH)	: 217 x 168 x 80 mm

Introduction

VC222 is a new 24-bit velocity sensor designed for vibration applications. Its built-in geophone sensors are at a high resolution of 130dB in dynamic range. The IP67 protection allows users to apply to vibration research applications, as well as geological surveys.

VC222 provides DIN4150-3 German vibration standard which is able to perform onsite calculation and give instant reports with its computing capability.

VC222 has an open platform for those who have established self vibration algorithms but have had hard time finding a suitable hardware to put into practice.

VC222 supports cloud service by which users have easy and quick accesses to upload or download data remotely.

Applications

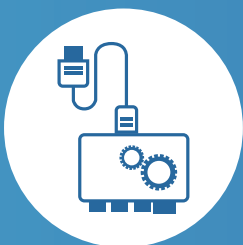
Vibration monitoring of highway / railway bridges

Vibration monitoring of tunnel structures

Comfort monitoring of residential buildings

Vibration monitoring of adjacent and neighboring during construction works

Features



Built-in or External Geophone Sensors



Multiple Vibration Standards



Open Platform



On-site Calculation and Cloud Services