



Sanlien Technology Corp.

# vALERT G320



Triaxial Velocity Vibration Sensor

Be the frontier of environmental monitoring

[www.sanlien.com](http://www.sanlien.com)

## Overview

vALERT G320 is a 24-bit velocity sensor designed for vibration applications in construction or structural health. Its built-in geophone sensors are at a high dynamic range of 130dB. The IP67 protection allows users to apply it to vibration research applications, as well as geological surveys.

vALERT G320 provides DIN4150-3 German vibration standard which is able to perform on-site calculation and give instant reports with its edge computing capability. vALERT G320 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. vALERT G320 supports cloud service – G320 Cloud, by which users have easy and quick accesses to upload or download data remotely.

vALERT G320 also comes in a 4G model that makes on-site transmission to be more convenient and easier.



## Key Features



Built-in or External  
Geophone Sensors



DIN-4150-3



Open Platform



On-site Calculation  
and Cloud Services



Edge Computing  
Capability



4G Mobile  
Communication

## Applications

- ✓ Construction Site Vibration Monitoring
- ✓ Structural Health Monitoring (SHM)
- ✓ Microtremor Assessments for Sensitive Structures
- ✓ Geological Survey

## Best Suited



Manufacturing Factories



Residential Buildings



Vibration Monitoring of  
Tunnel Structures



Adjacent and Neighboring  
during construction works

## Specifications

Sensor Type	Tri-axial geophone (built in or externally connected)
Measuring Range	28.8 V/m/s $\pm 7.5\%$
Dynamic Range	130 dB
Sample Rate	100 SPS, 200 SPS, 500 SPS, 1,000 SPS
Frequency Response	1 ~ 500Hz
ADC	3-channel @ 24-bit
Algorithm	DIN 4150-3
Time Synchronization	NTP or GPS
Output	Ethernet, Compatible with Modbus Protocol (RTU or TCP / IP)
Built-in Watch Dog Function	$\pm 10s$
Network Module	10/100 Base -TX Ethernet Controller
LCD Display	2 x Lines & 2 x Characters
CPU	ARM1176JZF-S 700 MHz
Storage	16 GB Micro SD Card (expandable)
Power Supply	12 ~ 30 VDC
Power Consumption	3W @ 12 VDC
Operating Temperature	-20 °C to 70 °C
Waterproof	IP67
Dimension (L x W x H)	217 x 168 x 80 mm

\*All prices, features, and specifications are subject to change without prior notice.

## Be the frontier of environmental monitoring

Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investments, perfecting our manufacturing of monitoring systems, and expanding into Smart City and IoT monitoring. With more than 1,000 local and international customers, Sanlien is trusted by global customers with high standards. By working with renowned agents around the world, we ensure the optimal performance and reliability of our services. With 50 years of profound experience in Taiwan, Sanlien has become the most exceptional provider of measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a global partner into a three-in-one strategy: long-term deployment of globalization, integration of local resources, and localized operations. We shall march on step by step with the stamina for running a marathon.

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