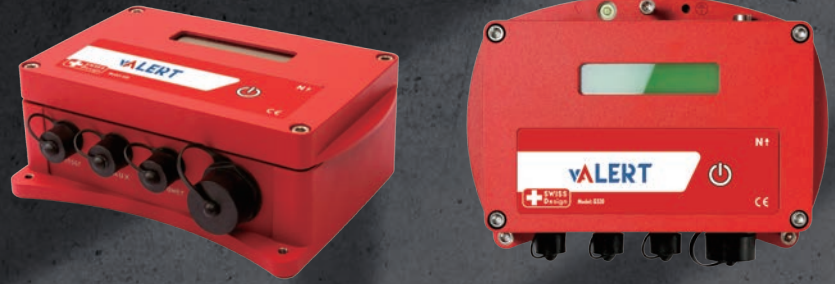


# vALERT G320



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 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 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.

## Features



Built-in or External  
Geophone Sensors



Multiple Vibration  
Standards



Open Platform



On-site Calculation  
and Cloud Services



Edge Computing  
Capability

## Best Suited



Vibration Monitoring of  
Highway and Railway Bridges



Residential Buildings



Vibration Monitoring of  
Tunnel Structures



Adjacent and Neighboring  
during construction works

## Application

- Industrial Disaster Prevention
- Structural Health Monitoring (SHM)
- Vibration Assessments For Geotechnical Structures

## Specification

### vALERT G320

Sensor Type	Tri-axial geophone (built in or externally connected)
Measuring Range	28.8 V/m/s 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
RTC Accuracy	60 sec/year Optional: NTP or GPS
Output	Ethernet, Compatible with Modbus Protocol (RTU or TCP / IP)
Built-in Watch Dog Function	±10s
Network Module	10/100 Base -TX Ethernet Controller
LED Display	Support
CPU	ARM1176JZF-S 700 MHz
Storage	16 GB Micro SD Card (expandable)
Power Supply	12 ~ 30V DC
Power Consumption	3W @ 12V DC
Operating Temperature	-20 °C ~ 70 °C
Waterproof	IP67
Dimension (L x W x H)	217 x 168 x 80 mm