PALERT
Q332

Tri-axial Quartz MEMS Accelerograph

Overview

pALERT Q332 is a cutting-edge tri-axial digital output all-in-one accelerograph. Embedded with a Quartz MEMS (Micro-Electro-Mechanical System) accelerometer, pALERT Q332 convinces with its ultra-low noise, high stability, and ideal power consumption. The Quartz MEMS technology results both in high accuracy, durability, and long-term stability that are not achievable with conventional sensor technologies.

The versatile pALERT Q332 is well suited to a wide-range of challenging applications such as Earthquake Early Earning (EEW), seismic observation, civil engineering vibration monitoring, micro-tremor monitoring for technology plants, as well as Structural Health Monitoring (SHM). The features of pALERT Q332 include a dynamic range of up to 132dB, a sampling rate of up to 1000 SPS, and support for international standards of intensity scales (MMI, JMA, KMA MMI, CEA, CWB).

Key Features

Built-in Web GUI & Waveform Viewer

Digital Output x3

Modbus Protocol

Time Synchronization via NTP or GPS

Backup Power via Built-in 18650 Battery

Applications

☑ Industrial Disaster Prevention

☑ Earth Early Warning System (EEWS)

☑ Rapid Structural Health Diagnostic (RSHD)

☑ High-Tech Plant VC Curve Monitoring
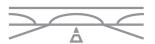
Best Suited

Seismic Monitoring for Regional Array

Onsite & National Earthquake

Micro-tremor Monitoring for High-tech Industry

Structural Health Monitoring for Buildings, Bridges, or Dams

Specifications

Sensor Type	Tri-axial Quartz MEMS Accelerometer Optional: 4th-axial vertical Geophone (built-in / externally)
Measuring Range	±1 g, ±2 g, ±4 g, ±15 g
Dynamic Range	>132 dB
Sample Rate	50 SPS, 100 SPS, 200 SPS, 500 SPS, 1000 SPS (configurable)
Frequency Response	DC - 460Hz
ADC	4 channels @24-bit
Trigger Algorithm	Pd, PGA, STA / LTA
Data Format	CSV / miniSEED
RTC Accuracy	±60 sec/year, supporting NTP synchronization. Optional: GPS model available upon request
LED Display	LED 2 lines x 20 characters
Storage	16GB microSD Card (expandable)
Power Supply	10 - 30 VDC
Power Consumption	2W@12 VDC
Operating Temperature	-20 °C to 70 °C
Waterpoof	IP67
Dimension (L x W x H)	205 x 160 x 80 mm
Weight	1.8 kg

*All price, feature and specification 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 investment, perfecting our manufacture 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 optimal performance and reliability of our services. With 50 years profound experience in Taiwan, Sanlien becomes the most exceptional provider measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a glocal 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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