



Sanlien Technology Corp.

# pALERT F330



Tri-axial Force Balance Accelerograph

Be the frontier of environmental monitoring

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

## Introduction

pALERT F330 features a high-precision triaxial force-balance accelerometer to enhance its performance which offers three trigger logics (Pd, PGA, STA/LTA) and filtering options, including high-pass and low-pass filters to reduce non-natural seismic noise. Notably, it incorporates Pd seismic early warning technology, which issues alerts before the arrival of S-wave, reducing earthquake-related disasters. It can estimate S-wave destructiveness when the P-wave displacement exceeds a threshold within 3 seconds.

pALERT F330 stores historical seismic data, including trigger time, maximum seismic intensity, PGA values for the three axes, and synthetic vector acceleration. It can synchronize with GPS or NTP network time for precise timekeeping. With strong networking capabilities, it can instantly upload earthquake warning information to three servers, and waveform records can be accessed via a browser for analysis.

The device supports various seismic intensity scales, such as the 2020 New Seismic Intensity Scale of the Central Weather Bureau, China's Strong Earthquake Intensity Scale (GB/T-17742-2008), and the international MMI scale, providing flexibility to users based on their specific needs.



## Key Features



Onsite Early Warning



Regional Early Warning



Modbus Protocol



Web GUI



NTP Server or Client



NB-IoT Wireless

## Applications

- ✓ Earthquake Early Warning Systems (EWS)
- ✓ Structural Health Monitoring (SHM)
- ✓ Industrial risk management enhancement
- ✓ Automatic shutdown for disaster reduction
- ✓ Protection of personnel on production lines

## Best Suited



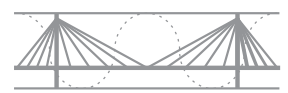
Residential Buildings



Industrial Infrastructure



Manufacturing Plants



Public Facilities

## Specifications

Sensor	Tri-axial force-balance accelerometer
Measurement Range	$\pm 0.5$ g, $\pm 1$ g, $\pm 2$ g, $\pm 4$ g (selectable)
Dynamic Range	>130 dB
Frequency Range	DC - 200 Hz
Nonlinearity	0.03%
Resolution	4 channels with 24-bit resolution
Cross-Axis Interference	$\leq \pm 0.1\%$
Output Sampling Rate	50 sps, 100 sps, 200 sps, 500 sps, 1000 sps
Seismic Event Record Time	Configurable up to 200 s
Display	LCD screen with 2 x 20 characters
Communication	RJ-45 network connection with compatibility for Modbus communication protocol
Storage Capacity	32 GB (expandable to 64 GB)
Dimension (W x L x H)	206 x 179 x 120 mm
Weight	4.37 kg

\*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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