PALERT F330





pALERT F330 is the latest model of Sanlien vibration family and complied USGS Class A force balance accelerograph standard. Joining MEMS and Quartz sensor technology, pALERT F330 embeds a tri-axial force balance accelerometer with a new designed 24-bit digitizer, elevating its performance to better than 130dB. pALERT F330 inherits the features from pALERT family, such as Pd algorithm for on-site early warning, along with PGA and STA/LTA trigger modes to capture natural vibration signals. pALERT F330 also keeps AUX port for direct control signal output for industrial usage on disaster mitigation. Besides being a scientific instruments, pALERT F330 can play significant roles for emergency shutdown, structural monitoring, or national seismic observation. Modbus streaming and Seedlink protocol are both available in pALERT F330. Recording data formats can be opted in CSV or miniSEED. International intensity standards are supported in pALERT F330 for real-time display on its LCD screen, including MMI US, KMA Korea, JMA Japan, CWB Taiwan, and CAE China.

Along with SanDAS (Sanlien Data Acquisition Software) software, pALERT F330 is an ideal strong-motion accelerograph for regional array in seismic observation, bridge or dam integrity monitoring, and building damage assessments.

Features



Edge Computing Capability



High Dynamic Range (>130dB)



Event Recording & Continuous Recording



SeedLink Protocol

Dimension (L x W x H)



Pd Algorithm



210 x 175 x 113 mm

Best Suited



Seismic Hazard Control



Vibration Monitoring

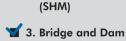


Infrastructure Life-cycle
Assessment

Application











Specification pALERT F330 Sensor Type Tri-axial Force Balance Accelerometer Trigger Algorithm Pd, PGA, STA / LTA **Measuring Range** ±2g, ±4g (Selectable) Bandwidth DC ~ 200 Hz > 130 dB (above 1 Hz with \pm 2g full scale) Instrument Noise (USGS CPSD method) > 124 dB (above 1 Hz with \pm 4g full scale) > 135 dB (Full Scale RMS sine wave to RMS noise, 0.01--500Hz band) Instrument Noise (RMS Dynamic Range) 100 SPS, 200 SPS, 500 SPS, 1000 SPS (With Anti-Aliasing LPF) **Sampling Rate Embedded Filter** LPF, HPF Resolution 24-bit CSV / miniSEED **Data Format** Storage 32GB microSD Card (Expandable) **Time Synchronization** NTP (GPS model available upon request) Display OLED (2 lines x 20 characters) **Power Supply** 10 - 30 VDC **Power Consumption Operating Temperature** -20 °C ~ 75 °C Waterproof IP67