SensorEra

Monitor Your Assets With Confidence

SMART SENSORS

Reduce costs while taking advantage of our cutting-edge seismic and ground motion sensing systems.

CARBON STORAGE

INDUCED SEISMICITY

PLUME FRONT MAPPING

✓ **6C Weak Motion Velocity** (Low-Frequency Geophones)

✓ **9C Strong Motion Acceleration** (Low-noise MEMS)

✓ **Real-time results**

✓ **SMS/Email/Voice Alerts within 15 minutes of event**

✓ **Self-oriented**

✓ **Wired or Wi-Fi plug-in for third party sensors (e.g. gas detection)**

Benchmarked against conventional seismometers and rapid to deploy. Enhance your network and clarify insight into your subsurface assets.

Sense the World Smarter

More Information at
www.sensorera.tech

SensorEra

9C high-sensitivity velocity with low-noise acceleration sensors

3C low-noise accelerometer

- Frequency Bandwidth: 0.03-850Hz
- Measurement range: ±2g
- Sensor dynamic range: 126dB @1Hz
- Self-noise level : $1.0 \mu g/\sqrt{Hz}$
- Linearity: ±0.1% of full scale
- Operating temperature: -40°~85° C

3C high-sensitivity velocity sensor

- Frequency Bandwidth: 0.1-850Hz
- Sensitivity: 80 V/(m/s)
- Operating temperature: -40°~85° C

3C Magnetometer

- Operating temperature: -40°~85° C

Digitizer

- Self-noise: <0.01 μm/s @gain=1 and BW=100Hz
- Gain: 1/2/4/8/16
- Clip level: 0.0326m/s @gain=1
- Dynamic range: 130dB @gain=1
- Resolution: 32-bit
- Operating temperature: -40°~85°C
- Sampling rate: 100/250/500/1000/2000 Hz
- Primary timing source: GNSS (GPS, GLONASS, GALLIEO, BEIDOU)
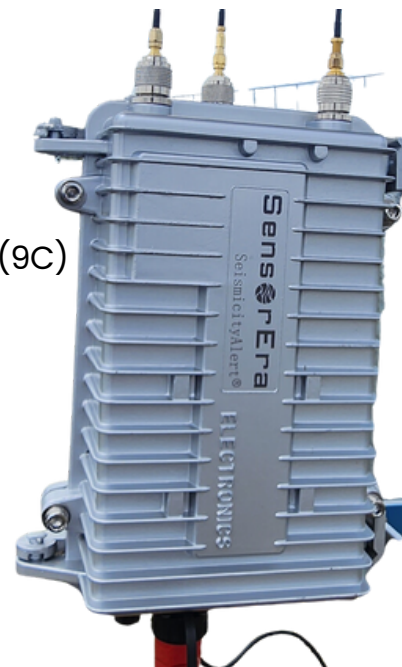- Internal clock accuracy: 100μs (calibrated with GNSS PPS)

Other specifications

- Waterproof rating and deployment depth range: 0-1000m (6C) 0-100m (9C)
- Data transmission method: Ethernet/4G cellular network/WiFi
- Supported 4G carrier: Verizon/AT&T/T-Mobile (4G booster optional)
- Power consumption: 4W
- Lithium battery: 600Wh/1200Wh/3200Wh
- Lithium battery working temperature: -40°~75°C
- Solar panel: 60W/100W
- Cloud storage provider: AWS
- Local storage: 32GB
- Additional feature: providing wired or Wi-Fi hotspot for 3rd party sensors
- Accelerometer: detect strong motion without clipping
- Velocity Sensor: detect weak distal events
- Rapid deployment: No self-test or field calibration required

6C Geophone
(4x Z) + X + Y

9C MEMS-Assisted Self-Calibrated System
Z + X + Y
(translational + rotational + magnetometer)

Digitizer / Data Recorder/ Communication

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