

SensErEra

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: $\pm 2g$
- Sensor dynamic range: 126dB @1Hz
- Self-noise level : $1.0\mu g/\sqrt{Hz}$
- Linearity: $\pm 0.1\%$ of full scale
- Operating temperature: $-40^{\circ}\sim 85^{\circ}C$

3C high-sensitivity velocity sensor

- Frequency Bandwidth: 0.1-850Hz
- Sensitivity: $80V/(m/s)$
- Operating temperature: $-40^{\circ}\sim 85^{\circ}C$

3C magnetometer

- Operating temperature: $-40^{\circ}\sim 85^{\circ}C$

Digitizer

- Self-noise: $< 0.01\mu m/s$ @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: $-40^{\circ}\sim 85^{\circ}C$
- Sampling rate: 100/250/500/1000/2000 Hz
- Primary timing source: GNSS (GPS, GLONASS, GALILEO, BEIDOU)
- Internal clock accuracy: $100\mu s$ (calibrated with GNSS PPS)

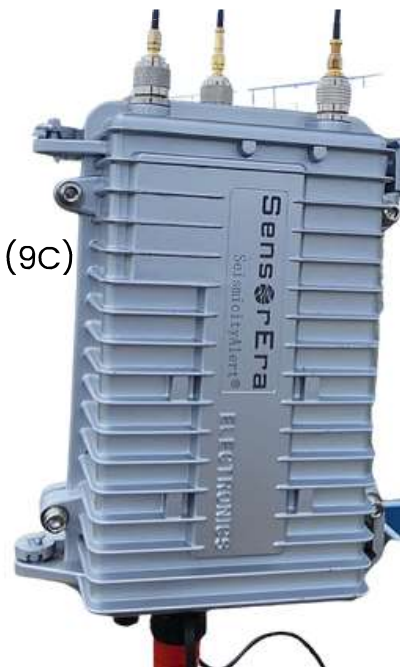
Other specifications

- Waterproof rating and deployment depth range: 0-1000m (6C) 0-300m (9C)
- Data transmission method: Ethernet/4G cellular network/Wi-Fi
- Supported US 4G carrier: Verizon/AT&T/T-Mobile (4G booster optional)
- Power consumption: 4W
- Lithium battery: 600Wh/1200Wh/3200Wh
- Lithium battery working temperature: $-40^{\circ}\sim 75^{\circ}C$
- 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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