

## ACCUSEIS SENSOR OPTION

### FEATURES

- All-in-one single component recording unit with internal MEMS sensor
- Operated through INOVA's iX Studio command and control software
- Patented MEMS accelerometer and custom electronics to record P-wave data
- Offers flat amplitude and phase response over a wide frequency range
- Insensitivity to tilt-degradation enables faster deployment
- Automatic tilt correction and updating of measured tilt



### GENERAL SPECIFICATIONS

No.of Digital Channels:	1
Data Storage Capacity:	16 GB non-volatile flash memory
Integrated Battery:	Rechargeable Li-ion
Battery Life:	23 days typical, 24 Hr operation
Wireless Communication:	Bluetooth LE, HyperQ
GPS:	L1-GPS /QZSS, GLONASS, BeiDou, Galileo
Timing Accuracy:	+/-20 $\mu$ s
Charging Temperature:	+5 °C to + 40°C
Operating Temperature:	-40 °C to + 70 °C
Water Immersion:	IP68

### SENSOR SPECIFICATIONS

Digital Quantization:	24-bits
Sample Rate:	1 ms, 2 ms, or 4 ms
Time Standard:	Phase locked to GPS clock
Full Scale (Peak):	Normal Mode: 3.3 m/s <sup>2</sup> (335mG) Large Signal Mode: 4.9 m/s <sup>2</sup> (500mG)
Noise:	Normal Mode:0.3 $\mu$ m/s <sup>2</sup> /V/Hz (30nG/V/Hz) 3 Hz to 400 Hz
Dynamic Range:	118 dB (normal mode)
Frequency response:	0 to 400 Hz
Digital High-Cut Filter:	0.82 Nyquist
Total Harmonic Distortion:	< -100 dB
Filter Options:	Minimum or Zero Phase

### PHYSICAL

Size:	10.9 cm x 9.8 cm x 8.61 cm (Excl. spike) (4.4" x 3.9" x 3.4")
Weight:	0.48 kg (1.06lbs) incl internal battery and MEMS accelerometer

### AUTOMATED TESTS

Unit temperature, sensor tilt, sensor noise, auto DC offset calibration, response accuracy test.