INOVA®

ACCUSEIS®

FEATURES

- INOVA's single component digital sensor
- Patented MEMS accelerometer and custom electronics to record P-wave
- Single-point receivers with one or three individual sensors per string
- Smallest and most compact digital sensor on the market
- Offers flat amplitude and phase response over a wide frequency range
- Insensitivity to tilt-degradation enables faster deployment of sensors in comparison to geophones
- Robust mechanical housing to withstand operational and environmental stresses
- Compatible with INOVA's Hawk® and G3i® HD acquisition systems

TECHNICAL SPECIFICATIONS

Digital Quantization:	24 Bits (23 + Sign)	Frequency Response:	DC to 400 Hz
Sample Rate:	4 ms, 2 ms, 1 ms, 0.5 ms	Low-Cut Filter Options:	3 Hz,1.45 Hz,Out
Time Standard:	Phase locked to acquisition system clock	Digital High-Cut Filter:	0.82 Nyquist
Full Scale (peak)	Normal Mode: 3.3 m/s^2 (335mG) Large Signal Mode: 4.9 m/s^2 (500mG)	Total Harmonic Distortion:	< -100 dB
		Sensor Module Interface:	One twisted wire pair
Noise[1]	Normal Mode:0.3 µm/s^2/√Hz (30nG/√Hz) 3 Hz to 400 Hz	Power Consumption[1]:	85 mW
Dynamic Range[1][2]	Normal Mode: 118 dB		
Frequency Response:	DC to 400 Hz		
Low-Cut Filter Options:	3 Hz,1.45 Hz,Out		
Digital High-Cut Filter:	0.82 Nyquist		
Total Harmonic Distortion:	< -100 dB		

PHYSICAL SPECIFICATIONS

Dimensions: 6.93 cm (H), 6.47 cm (Ø)
                2.73 in (H)), (2.55 in (Ø))

Volume: 216.96 cc (13.24 cu in)

Weight: 200 g (0.441 lb)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -40 °C to +75 °C

Storage Temperature: -50 °C to +85 °C

Shock: 1500 g, ½ ms, ½ sine

Humidity: 0% to 100% RH non-condensing

Water Depth Rating: 5 m

TESTING

Embedded Power-up Self Test: Sensor wake-up and self configuration checks

Operator Controlled System Tests: Spread noise

                                    Sensor loopback (verifies module telemetry, digital filter performance
                                    and sensor functionality)

                                    Telemetry error count

                                    Sensor Tilt

Sensor Status Checks: Overscale status

                                    Sensor offset

                                    Digital fault flags