Quantum®

FEATURES

- All-in-one single component recording unit
- Lightest node on the market today weighing only 650g

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- Greater than 50 days, 24 Hr operation
- Local 8GB or 16GB data storage
- Highly visible LED "Health status feedback"

GENERAL SPECIFICATIONS

No.of Analog Channels:







ANALOG SPECIFICATIONS

No.01 Analog Channels:			0 (.).)
Data Storage Capacity:	8GB non-volatile flash memory	A/D Converter:	24-bit
	(upgradeable to 16GB)	Sample Rates:	1 ms, 2 ms, or 4 ms
Integrated Battery: Rechard		Gains:	0 dB, 6dB ¹ , 12 dB, 18dB ¹ , 24dB ¹
5 , 5	, ,	Maximum Input Signal (RMS):	3.535 V @ 0 dB , 1.768 V @ 6 dB
Battery Life:	Greater than 50 days, 24 Hr operation		0.884 V @ 12 dB, 0.442 V @18dB
Wireless Communication:	Bluetooth LE,		0.221 V @ 24 dB
GPS: L1-GPS	/QZSS, GLONASS,	Equivalent Input Noise* (RMS):	1.408 µV @ 0 dB
	BeiDou, Galileo	Equivalent input Noise (RMS):	
Timing Accuracy:	+-20 µs		0.712 µV @ 6 dB, 0.368 µV @ 12 dB
Sensor:	Vertical 5Hz or 10Hz		0.202 µV @ 18 dB, 0.132 µV @ 24dB
	high-sensitivity geophone	Instantaneous Dynamic Range*:	128 dB @ 0 dB,128 dB @ 6 dB
	5 , 5 ,		128 dB @ 12 dB,127dB @ 18 dB
Charging Temperature:	+5 °C to + 40°C		124 dB @ 24 dB
Operating Temperature:	-40 °C to + 70 °C	System Dynamic Range*:	148 dB
Water Immersion:	IP68	Total Harmonic Distortion:	
		Total Harmonic Distortion:	<0.1% with 10Hz HS phone
PHYSICAL			<0.2% with 5Hz HS phone
Size:	10.9 cm x 9.8 cm x 10.7cm	Channel Matching:	Better than 1%
0.201		Anti-Alias Filter:	3dB @ 0.876 fN (Nyquist)

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 10.9 cm x 9.8 cm x 10.7 cm

 Anti-Alias Filter:
 3dB @ 0.876 fN (Nyquist)

 (Excl. spike) (4.4" x 3.9" x 4.2")
 Filter Options:
 Linear or Minimum Phase

 Weight:
 0.65 kg (1.43lbs) incl internal battery
 AUTOMATED TESTS

*Typical specifications @ 2 ms @ 25°C

AUTOMATED TESTS

Unit temperature, sensor tilt, system equivalent input noise, sensor noise, dynamic range, geophone DC resistance, THD, natural frequency, damping, sensitivity

 $^{\rm 1}$ Gain option when operating in hybrid with G31 $^{\rm (I\!\!R}$ HD