



# QUANTUM<sup>®</sup>

## EXTERNAL CONNECTOR MODEL

### FEATURES

- All-in-one single component recording unit with option to connector external analog sensor
- Lightweight node weighing only 650g
- 50 days typical, 24 Hr operation
- Local 16 GB data storage
- Optional HyperQ long range wireless QC using technology



### GENERAL SPECIFICATIONS

No.of Analog Channels:	1
Data Storage Capacity:	16 GB non-volatile flash memory
Integrated Battery:	Rechargeable Li-ion
Battery Life:	50 days typical, 24 Hr operation 42 days typical, 24 Hr operation (with HyperQ)
Wireless Communication:	Bluetooth LE, Optional HyperQ
GPS:	L1-GPS /QZSS, GLONASS, BeiDou, Galileo
Timing Accuracy:	+/-5 $\mu$ s
Internal Sensor:	Vertical 5Hz or 10Hz high-sensitivity geophone
External Connector Type:	5515
External Sensors Supported:	Single high-sensitivity marshphone, single high-sensitivity geophone
Charging Temperature:	+5 °C to + 40°C
Operating Temperature:	-40 °C to + 70 °C
Water Immersion:	IP68 (fresh water)

### PHYSICAL

Size:	10.9 cm x 9.8 cm x 10.7cm (Excl. spike) (4.4" x 3.9" x 4.2")
Weight:	0.65 kg (1.43lbs) incl internal battery and geophone

### ANALOG SPECIFICATIONS

A/D Converter:	24-bit
Sample Rates:	1 ms, 2 ms, or 4 ms
Gains:	0 dB, 6dB <sup>1</sup> , 12 dB, 18dB <sup>1</sup> , 24dB <sup>1</sup>
Maximum Input Signal (RMS):	3.535 V @ 0 dB , 1.768 V @ 6 dB 0.884 V @ 12 dB, 0.442 V @18dB 0.221 V @ 24 dB
Equivalent Input Noise* (RMS):	1.408 $\mu$ V @ 0 dB 0.712 $\mu$ V @ 6 dB, 0.368 $\mu$ V @ 12 dB 0.202 $\mu$ V @ 18 dB, 0.132 $\mu$ V @ 24dB
Instantaneous Dynamic Range*:	128 dB @ 0 dB, 128 dB @ 6 dB 128 dB @ 12 dB, 127dB @ 18 dB 124 dB @ 24 dB
System Dynamic Range*:	148 dB
Total Harmonic Distortion:	<0.1% with 10Hz HS phone <0.2% with 5Hz HS phone
Channel Matching:	Better than 1%

### AUTOMATED TESTS

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

\*Typical specifications @ 2 ms @ 25°C

<sup>1</sup> Gain option when operating in hybrid with G3i<sup>®</sup> HD

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## NODE FLOAT (OPTIONAL)

Node floatation device suitable for marsh nodal operations

### PHYSICAL

Size: 30.48 cm x 30.48 cm x 7.92 cm

12" x 12" x 3.12"

Weight: 1.2 Kg 92.64 lbs

