

AURAL-M2

Specification Sheet

General

Supply Voltage: 12Vdc nominal (9Vdc to 15Vdc)

Operating temperature: 0 °C to 40 °C

Tested depth: 300 meters

Case Material: Stainless Steel 316, Delrin, Fiberglass Epoxy

Anode Material: Zinc

Analog Section

A/D: 16 bits

Filter: Programmable frequency 8th order linear phase low pass (Anti Aliasing)

Amplifier: Low Noise amplification with 16, 18, 20 & 22 dB selectable gain

Pressure Sensor: 0 to 1000 psi (0~682 m.) (resolution: 1,3 cm, display: 0,1 m, accuracy: +/- 0,25 % max)

Temperature sensor: -10 °C to 40 °C (resolution: 0,0625 °C, display: 0,1 m, accuracy: +/- 0,5 °C)

Hydrophone: HTI-96-MIN

Usable Frequency range: 10 to 128, 256, 512, 1024, 2048, 4096, 8192, 16 384 Hz

Digital Section

MCU: 33 MIPS Dallas DS89C450 Ultra High Speed Flash Microcontroller

Flash Type & Size: Compact Flash 1 GB or more

Hard Disk Size: 1 TB

Hard Disk Data Transfer Speed: 1.5 MB/Sec

Time Base: Low Power 32.768 KHz TCXO with +/- 2ppm accuracy

Communication: RS232 (38.4Kbs, N, 8, 1)

System File Format: FAT32

Audio File Format: WAV

Sampling Rate: 256, 512, 1024, 2048, 4096, 8192, 16 384, 32 768 samples/second

Power requirement	AURAL-M2 Release 2, 3 & 4
Standby	~ 8mA
Active - Wait to Record mode "5 sec"	~ 47 mA
Active - Record mode	~ 58mA
Active - Saving mode	~ 253mA



Units Information

	16 batteries	64 batteries	128 batteries
A Diameter (1)	14,6 cm (5,75 in)	14,6 cm (5,75 in)	14,6 cm (5,75 in)
B Length	90 cm (35,375 in)	120 cm (47,375 in)	178 cm (70 in)
In air weight (2) (5)	20 Kg (45 lb)	32 Kg (71,5 lb)	49 Kg (109 lb)
In water weight (2) (4) (5)	9 Kg (19,5 lb)	14 Kg (30,5 lb)	21 Kg (46 lb)
Battery capacity (3)	30 Ah	120 Ah	240 Ah
Shipping case	-	16 Kg / 19 Kg 35,27 lb / 41,89 lb	21 Kg (46,30 lb)

(1) Cylinder only (without strap)

(2) Including EN95 Batteries

(3) Battery capacity using Energizer EN95 (Based on 15mA constant drain)

(4) Submerged in fresh water

(5) Valid informations for AURALS made since 01-01-09