

Bat Detector SM4BAT

Lightweight, portable and weatherproof acoustic monitoring of bats



Description

Periodic, seasonal, or long-term acoustic monitoring of bats

- Lightweight, portable and completely weatherproof
- Easy to set up and use with convenient Quick Start
- Easy integration into SCADA systems via the Ammonit Meteo-40 data logger

The SM4BAT is a weatherproof, programmable audio recorder designed for the periodic, seasonal, and longterm monitoring of wildlife bioacoustics in almost any environmental condition. You can schedule daily recordings to meet a variety of needs including times that are relative to sunrise and sunset, specific duty cycles with on/off recording patterns, and continuous monitoring all day and all night.

The SM4BAT optimizes battery life and memory capacity to record for extended periods of time. Using both memory slots and new alkaline batteries, a typical deployment can record for up to 650 hours spanning several months.

Made of rugged polycarbonate, the SM4BAT is less than half the weight and size of the SM3BAT. The integrated mounting bracket and weatherproof security cover keep the unit safe and dry in the most punishing environments.

To get you started quickly, the SM4BAT features a brand new, easy-to-use, Quick Start menu and Scheduler. Use built-in schedules, or customize them for your specific recording needs.

Specifications

Characteristic	Description
Recording Channels	2
Recording Technologies	16-bit PCM .wav
Audio	

OAmmonit

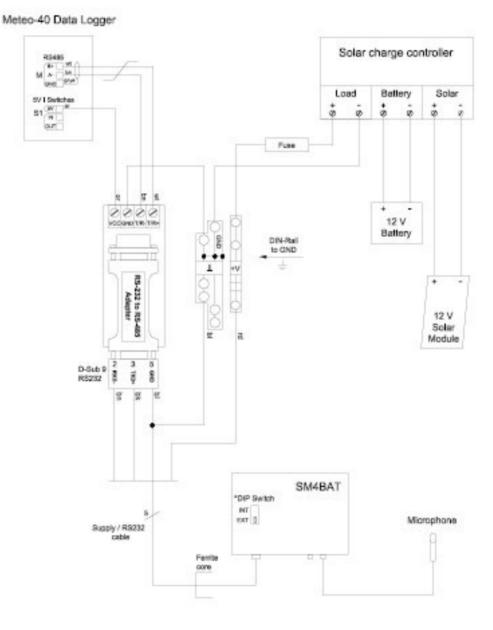
Bat Detector SM4BAT

Characteristic	Description
Amplifier Gain	Preamp: 0 dB or 26 dB, Amplifier: 0 dB 59.5 dB in 0.5 dB steps
Noise Floor	-93 dBV, A-Weighted (@0 dB gain, HPF disabled)
High Pass Filter	220 Hz or 1 kHz
Sample Rates [kHz]	8, 12, 16, 22, 05, 24, 32, 44.1, 48, 96
Microphone, internal	Sensitivity: -35 ±4 dB (0 dB=1V/pa@1kHz)
Microphone, external (SMM-A2)	Sensitivity: -9 ±4 dB (0 dB=1V/pa@1kHz)
Accessories	
Memory	Class 4 or faster SDHC and SDXC (no reformat required),
	up to 32 GB SDHC or up to 512 GB SDXC per slot
Adapter	Adapter RS-232 to RS-485 (optional:M88010)
Optional	Y-cable for external supply and RS-232
Integrated	RS-232 UART
Bandrate	19 200 or 38 400 automatically
	8N1
Supply	
Power Supply	External: 5 – 17 VDC
	Internal: 4 standard D size disposable alkaline batteries
	Clock Backup Bat.: 3.0 VDC lithium CR2032
Power Consumption	Recording: 100 – 180 mW, Sleeping: 1.8 mW
Operating Temperature	-20 °C to 85 °C
Dimension	218 mm x 152 mm x 78 mm (L x W x H)
Weight with 4 D batteries	1.3 kg
Manufacturer	Wildlife Acoustics, Inc.



Sensor connection diagram

Connection between SM4BAT, Meteo-40 and external supply



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