

# Acoustic Sensor for Harsh Environments



## Product Overview & Specifications Myotis 1300 The fiber optic microphone

Phonoptics microphone is designed to resist to the most hostile environments, to listen where no other microphone can resist. Based on a patented sensor technology using only one fiber, the microphone has a first worldwide exceptional range (>10km) at a very competitive price.



## Features Overview

Phonoptics microphone is designed to resist to the most hostile environments, to listen where no other microphone can resist.

High temperatures, high pressure, humidity, Electromagnetic Interferences (EMI/RFI), radiations : Phonoptics microphone is born to live in harsh environments.

Based on a patented sensor technology using only one fiber, the microphone has the first world-wide exceptionnal range (>10km in singlemode fiber).

Due to its small form factor, the sensor can be easily installed. The use of telecom fiber (single-mode and graded index multimode fiber versions available) allows our microphone to be plugged in existing fiber networks.

Myotis 1300 shipped with : 1x Acoustic sensor (1 meter long)  
1x Opto-electronic housing (conditioner)  
1x Power supply



# Detailed Specifications

## Conditioner

Sensibility	150mV/Pa (measured at 1 kHz, 94dB, gain settled at center detent)
Max Output Voltage	+2.5V / -2.5V
Output	Jack 3.5mm - BNC 50Ω
Operating Temperature	-10 °C to +40 °C
Storage Temperature	-20 °C to +45 °C
Power Supply	plug-in power supply unit 100-240V AC to 5V DC
Power Consumption	150mA - 0.8 Watt
Battery Characteristics	1200 mAh; approximatly 8 hours working

## Fiber Optic Microphone

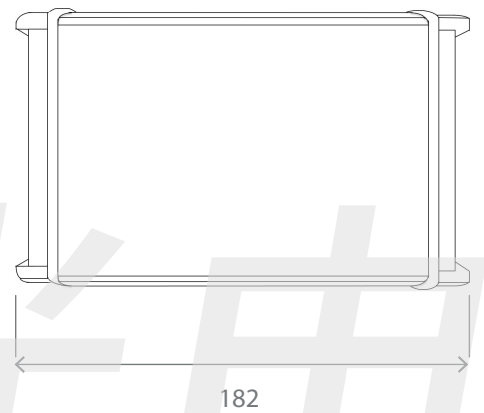
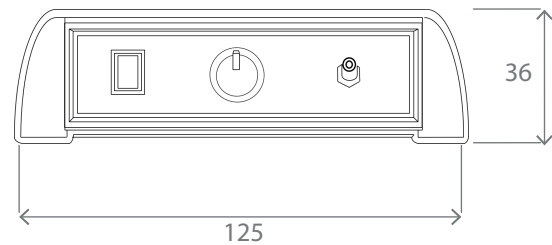
Material	Invar® (other on demand)
Bandwidth	15Hz to 15kHz (±3dB)
Signal-to-Noise Ratio	70dB (measured at 1kHz, 94dB, gain settled at center detent)
Max Pressure	130dB SPL
Operating Temperature	-30°C to +100°C
Storage Temperature	-40°C to +125°C

## Fiber Optic

Dimensions	Bare fiber (Φ 250 μm buffer), loose tube 900 μm or fiber optic cable (Φ 2mm, 3mm, metal)
Connector	E2000/APC (built-in protective cap)
Type	GI50/125 (other on demand)
Min Radius of Curvature	5 mm instant, 40 mm long term storage

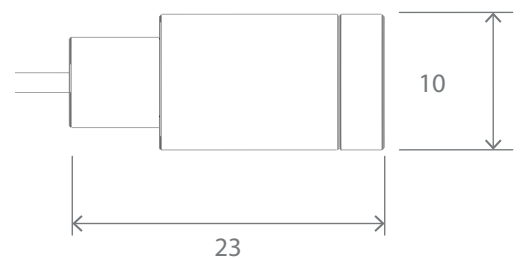
## Mechanical Drawing

Dimensions are in mm

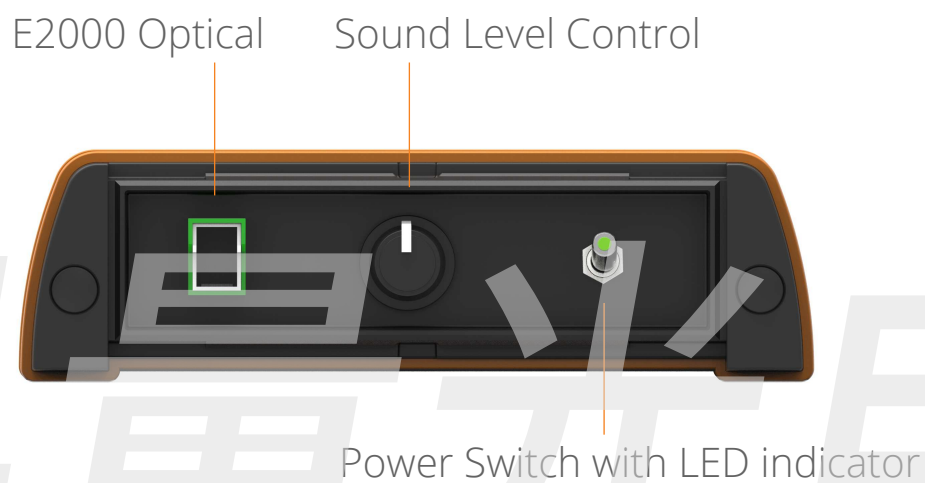


## Fiber Optic Microphone

Dimensions are in mm



## Connectivity - Front View

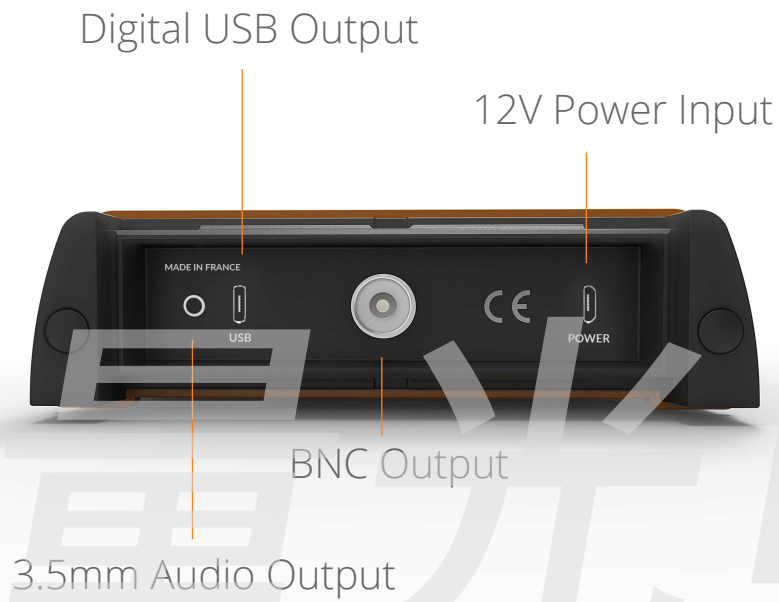


## Conditioner Front View

### Bonus !

E2000 connector has built-in protective cap which protects the connection from intrusions such as dust. Moreover, light emission from the optical source - even when the probe is not connected - is safe for human eyes

## Connectivity - Back View



### Conditioner Rear View

#### Accessories on demand

- Wall mounts
- Foot tower
- Foot crutches
- Battery holders integrated