

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.

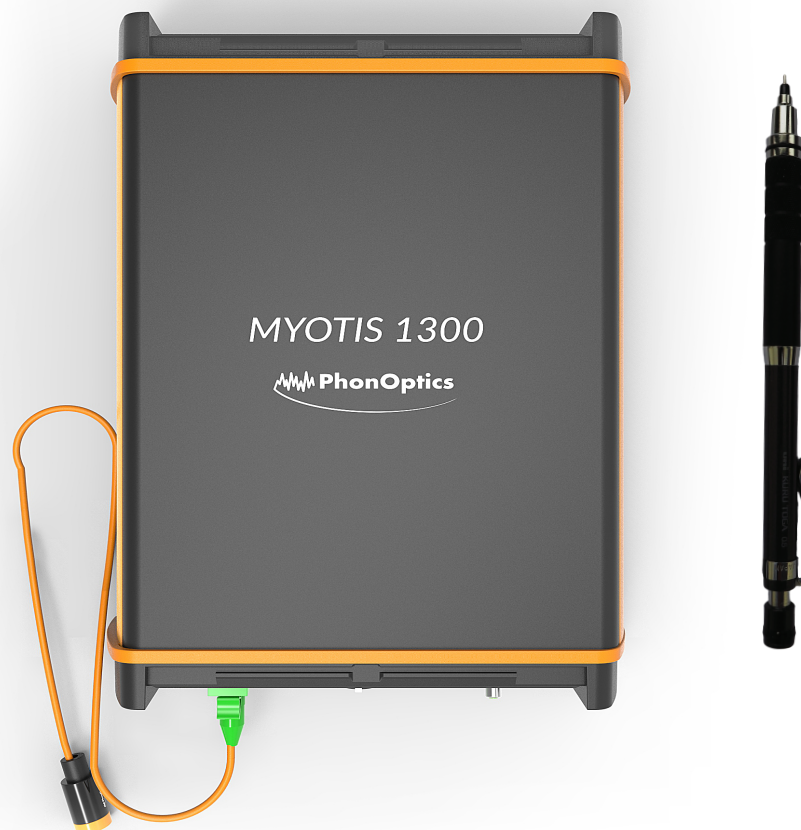
High temperatures, high pressure, humidity, Electromagnetic Interferences (EMI/RFI), radiations : Phonoptics microphone is born to live in harsh environments.

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

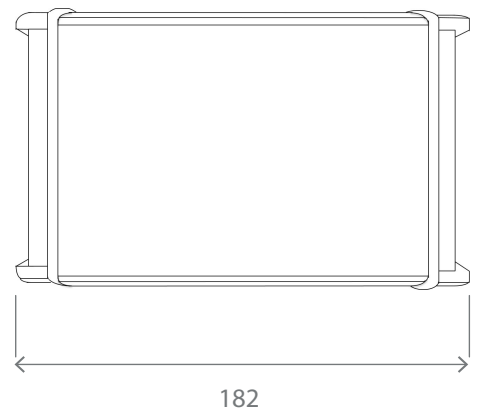
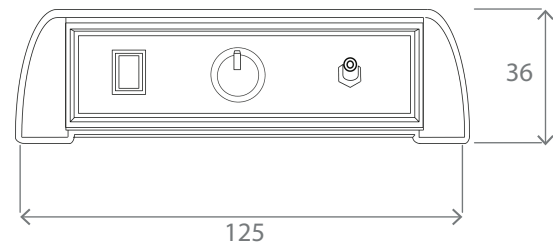
Material	Invar® (other on demand)
Bandwidth	15Hz to 15kHz (±3dB)
Signal-to-Noise Ratio	70dB (measured at 1kHz, 94dB, gain settled at center detent)
Max Pressure	130dB SPL
Operating Temperature	-30°C to +100°C
Storage Temperature	-40°C to +125°C

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

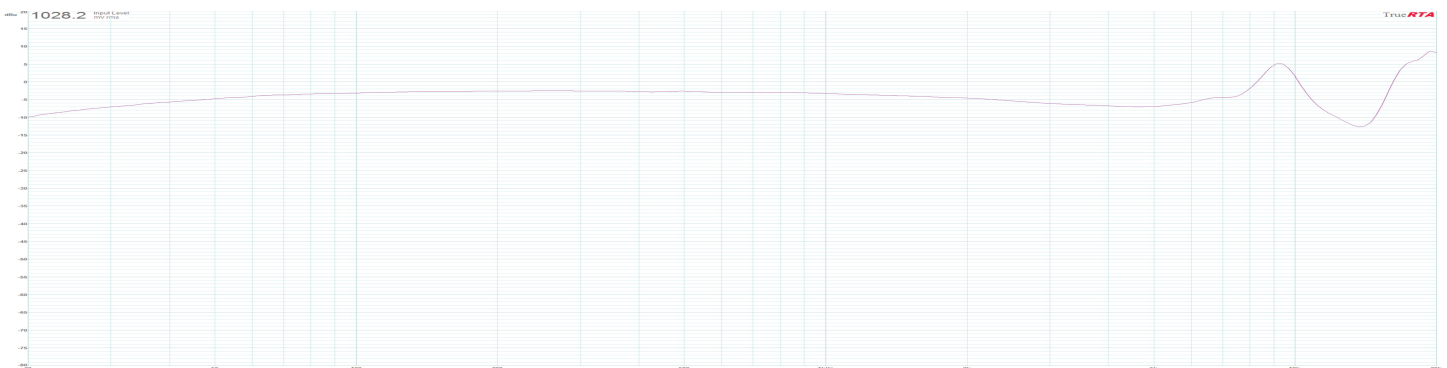
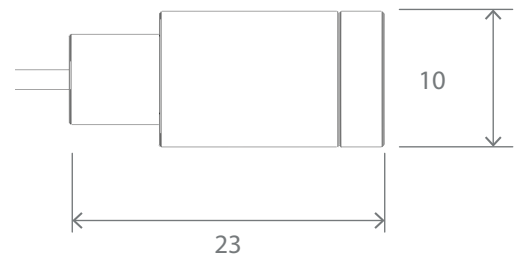
Mechanical Drawing

Dimensions are in mm

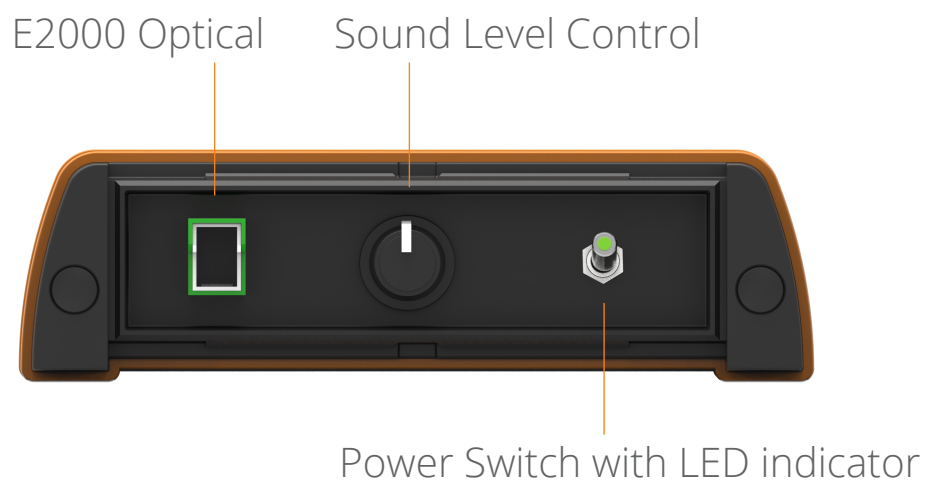


Fiber Optic Microphone

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