

# MYOTIS 1300

## SENSOR AND SIGNAL CONDITIONER

**Phonoptics** manufactures fiber optic sensors for use in harsh environments. Within the framework of its developments, Phonoptics offers its know-how in terms of optical sources.



In order to use Phonoptics fiber optic sensors, it is necessary to use electronics that provide the optical signal and its analysis.

This Myotis1300 version also allows the amplification of the signal with a gain on 3 levels, the use of headphones and the BNC AC output, an SMA DC output for monitoring the integrity of the sensor, and a digital output type USB daq 44kHz 16bit. All these outputs can be used simultaneously.

The LED on the front panel indicates in red if the  $\mu$ USB power cable is connected (and therefore the battery is recharging), and indicates in green if the unit is in the ON position.

An integrated circuit optimizes the recharging and the power supply of the unit according to the needs and capacities of the charger.

An integrated thermistor provides protection in case of overheating. The rear LED indicates whether a sensor is present and functional.

Standard and convenient inputs/outputs  
For any Phonoptics sensor  
Sensor integrity check output  
Optical connector E2000 APC with protective flap  
Integrated scanner  
Integrates a battery



The connector has a protective metal flap that prevents dust intrusion and laser light from leaving the housing when the microphone is not plugged in, thus ensuring optimum safety

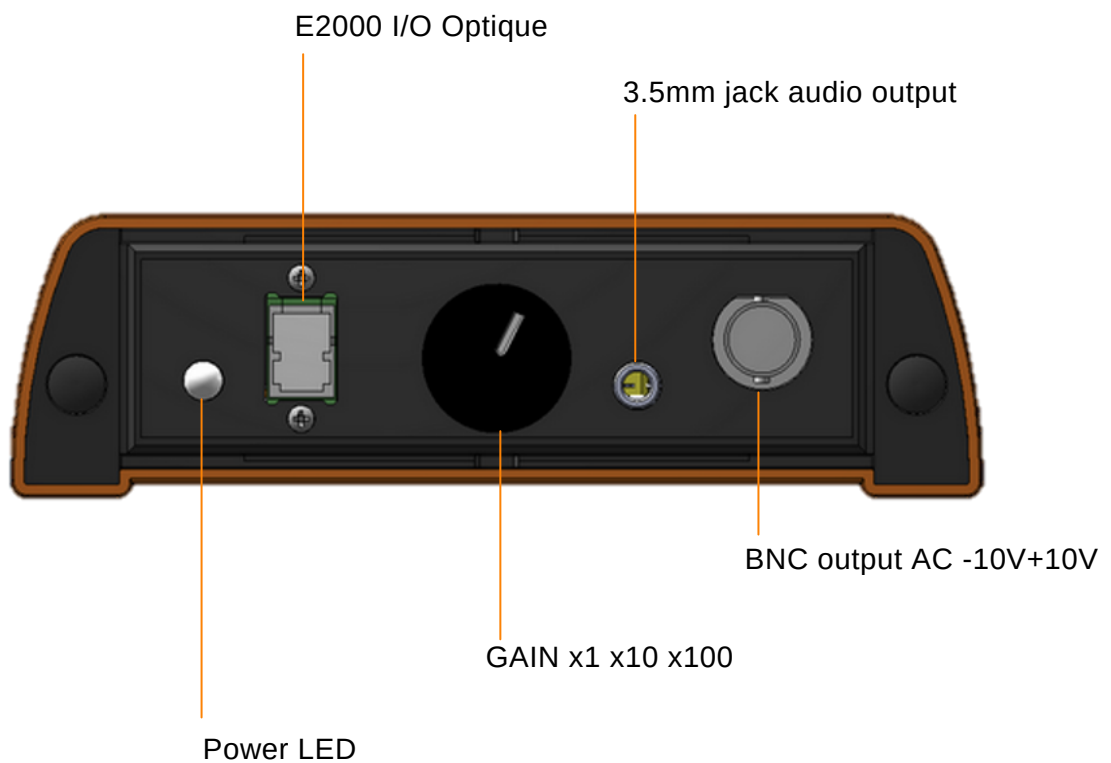
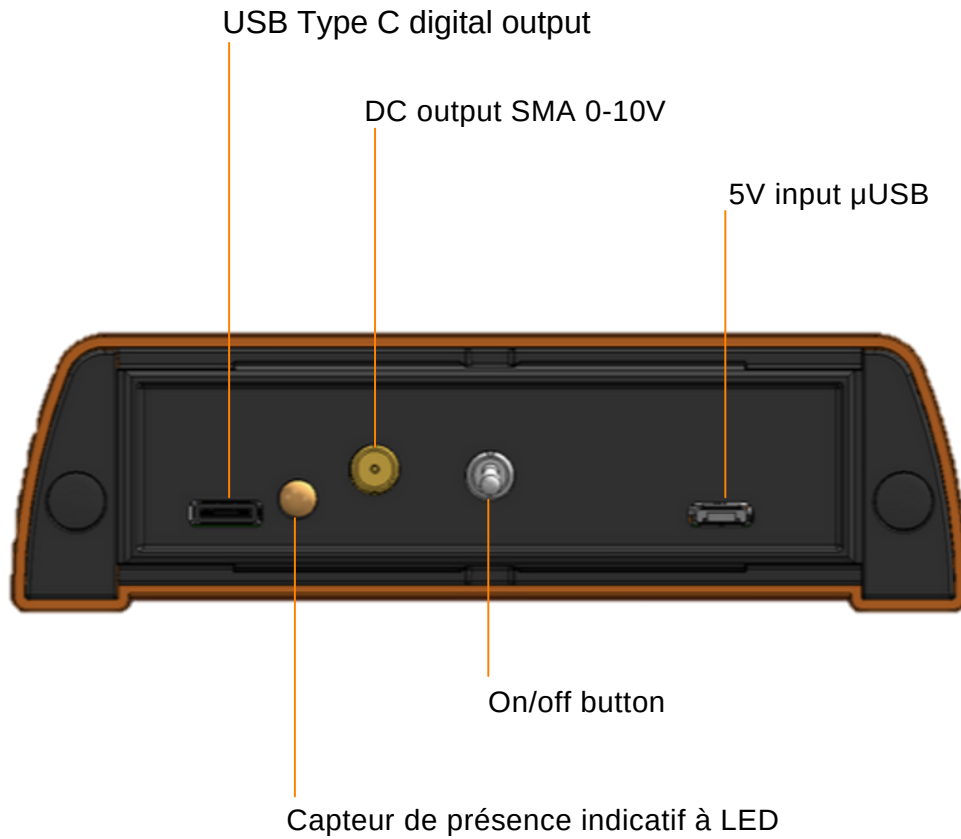
## CONTACT US

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# Detailed specifications



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# Detailed specifications



## Conditioner

Sensitivity	100mV/Pa (measured at 1 kHz, 94dB, gain set at center)100mV/Pa (measured at 1 kHz, 94dB, gain set at center)100mV/Pa (measured at 1 kHz, 94dB, gain set at center)
Output voltage max	+2.5V / -2,5V
Outputs	Jack 3.5mm – BNC 50Ω
Temperature of use	-10° C to +40° C
Temperature storage	-20° C to +45° C
Food	Wall block 100-240V AC to 5V DC
Consumption	150mA – 0.8 Watt
Features of the battery	1200 mAh; approx. 8 hours of autonomy

## fiber optics

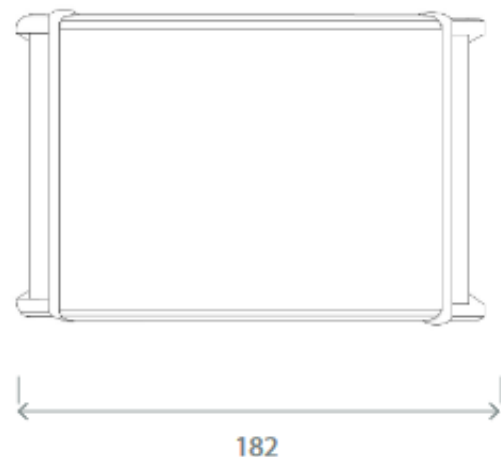
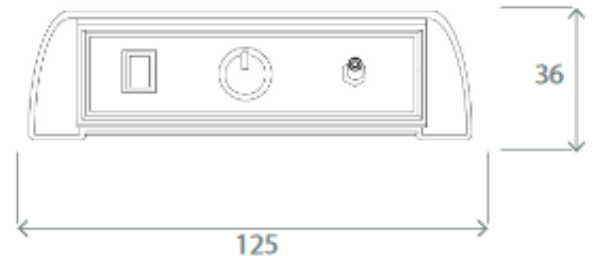
Dimension	Bare fiber ( $\phi$ 250 $\mu$ m buffer), sheath 900 $\mu$ m or fiber optic cable ( $\phi$ 2mm, 3mm, metal)
Connector	E2000/APC (cap of integrated protection)
Type	G150/125 (other on request)
Radius of min curvature	5 mm instantaneous, 40 mm long lasting

## Microphone

Materials	Invar (others on request)
Bandwidth	15Hz à 15kHz ( $\pm$ 3dB)
Signal-to-noise ratio (SNR)	70dB (measured at 1kHz, 94dB, gain set to center)
Permissible pressure Max	130dB SPL
Temperature of use	-25° C to +120° C
Power	-25° C to +125° C

## Mechanical drawing

Size in mm



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