

TECHNICAL SPECIFICATIONS

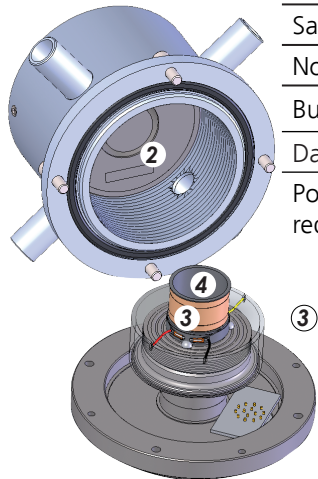
TRANSDUCER BLOCK

Bandwidth (f -3 dB)	Pressure output: 0,01 - 28 Hz Pressure derivative output: DC - 28 Hz
BLDR* [0,02 ; 4] Hz	117 dB @ f < 1,6 Hz / 109 dB @ f = 4 Hz
Self-noise	0.13 mPa/√Hz @ 1 Hz < 10 dB under LNM
Resolution [0,02 ; 4] Hz	1,75 mPa _{RMS}
Default sensitivity (Adjustable gain)	Pressure output: 20 mV/Pa Pressure derivative output: 2 mV/Pa.s ⁻¹ Calibration output: 6V/Pa
Auxiliary outputs:	
• Temperature sensor	[-40 ; + 110]°C, 10 mV/°C, ±0,2°C
• Atmospheric pressure sensor	[150 ; 1150] hPa, 1 mV/hPa offset stability: 0,25% full scale / uncertainty: 1,5% full scale

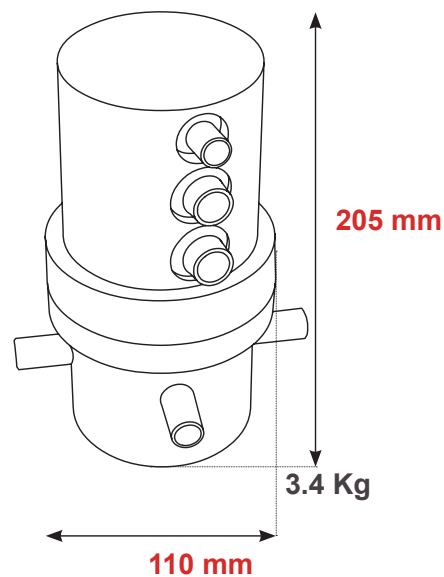
* Band Limited Dynamic Range

DIGITAL HOOD

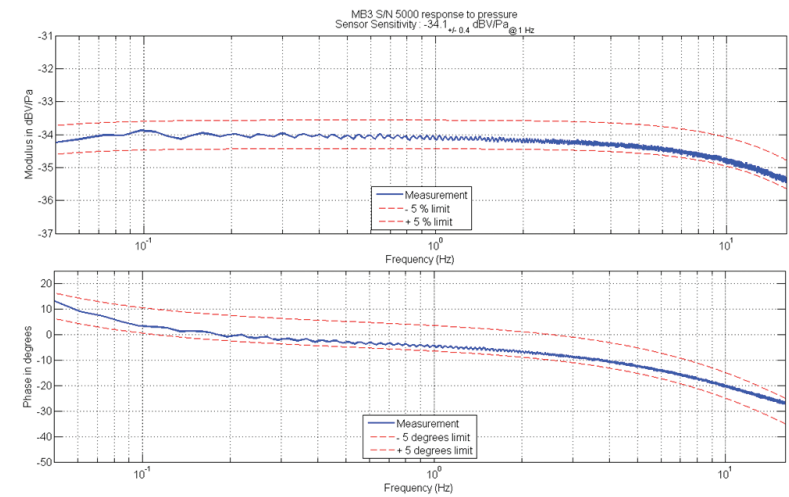
Clipping Level and output range	Pressure: ±min (12000 [Pa/s]/2.π.f[Hz] ; 1000 [Pa]) Pressure derivative: ±10000 (Pa/s)
Sampling rate	20, 50, 100 Hz
Nominal sensitivity	1,178 10 ⁻⁴ Pa/lsb or 1,178 10 ⁻³ Pa/s/lsb @ gain = 1
Built in gain	1, 2, 4, 8 (Digitizer gain)
Data storage	1 GB / miniSEED
Power requirements	12 V DC (7-20V) - 840 mW



- ① Pressure sensitive element: aneroid capsule (bellows sealed under vacuum)
- Transducer: magnet ② and coil ③
- velocity transducer
- ④ calibration coil



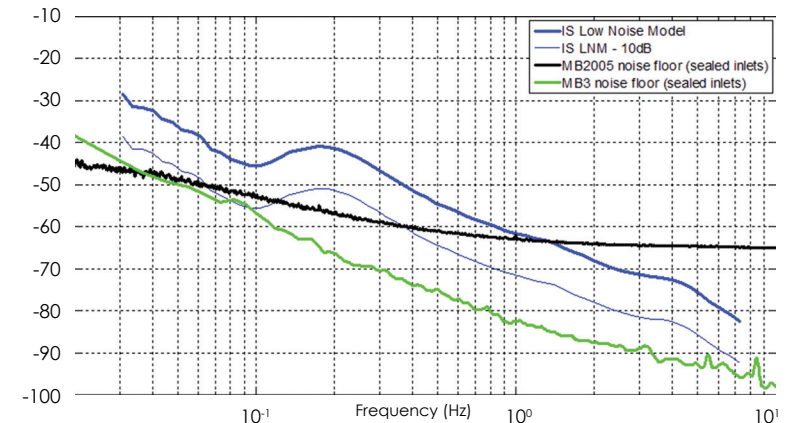
SENSOR SENSIBILITY RESPONSE



theoretical response (amplitude ± 5%, phase ± 5%)

SELF NOISE

Low instrumental noise < 10 db under LNM

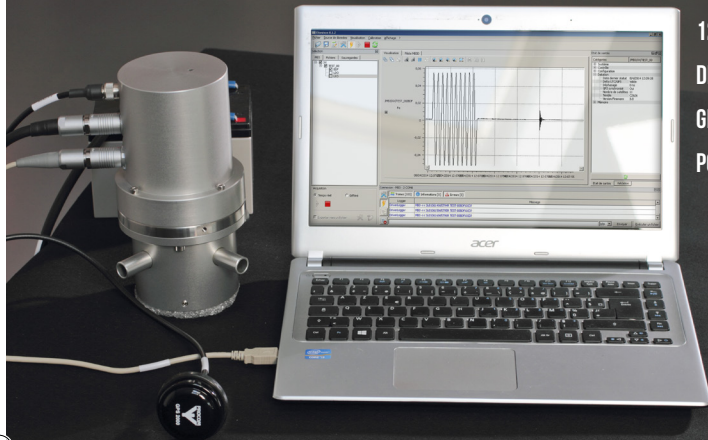


ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-20°C to + 50°C
Storage temperature	-30°C to + 70°C
Seismic sensitivity	< 30 Pa/m.s ⁻²
Sealing	CEI 60529-IP67 (with acoustic inlets sealed)
Shock / Drop	NF EN 60721-3-1, 2M1 (free fall, impact, shock)
Transport	NF EN 60721-3-2, 2M3 (vibration)
EMC	NF EN 55024 classes A & B (immunity) NF EN 55022 class B (emission)

ASSOCIATED PRODUCTS:

- SIGNAL CABLE
- GPS ANTENNA PROCOM 2000B TNC
- RIGHT ANGLE TNC ADAPTER
- MAGNET WRENCH
- BATTERY & SOLAR PANEL
- 12 V POWER CABLE
- DIONISOS SOFTWARE
- GPS CABLE
- PORTABLE STATION KIT



**SEISMO
WAVE**

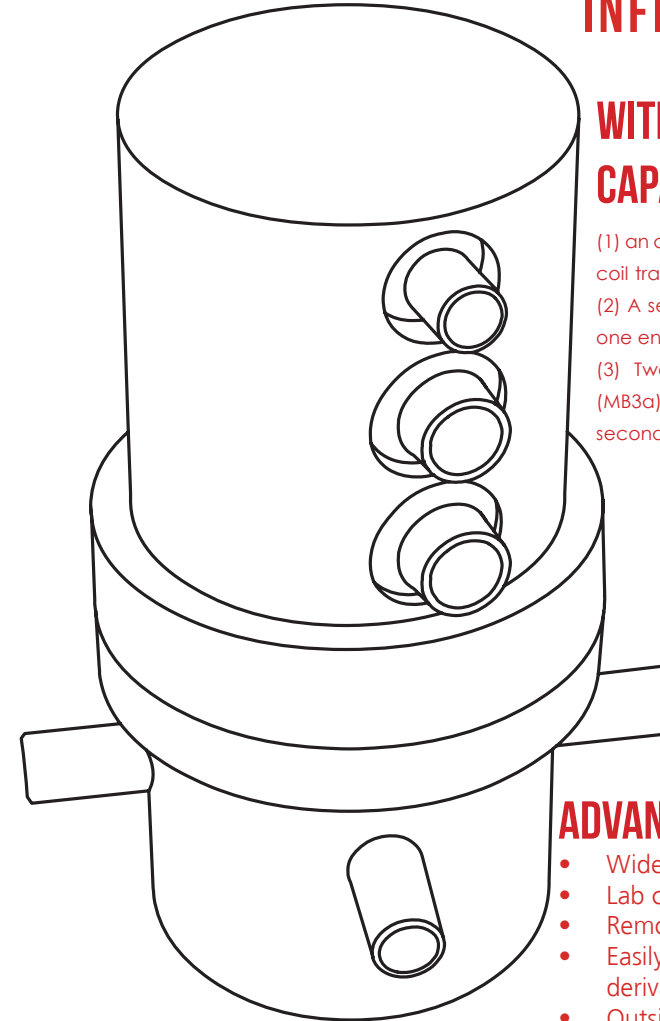


MB3d

INFRASOUND SENSOR

WITH REMOTE CALIBRATION CAPABILITY

- (1) an aneroid capsule coupled with a magnet & coil transducer (bellows sealed under vacuum).
- (2) A secondary coil wrapped around the main one ensures remote calibration capability.
- (3) Two versions are proposed. One analog (MB3a) compatible with usual digitizers. The second one is digital (MB3d)



Packaging:
ScrewPack
Pelican Cases

Metrology services:
Self noise, Electrical &
acoustical transfer function

Portable Infrasound Station:
A waterproof kit & WNRS for
autonomous measurements



ADVANTAGES

- Wide dynamic range
- Lab calibrated (Verification certificate)
- Remote calibration (sine, pulse or MLS)
- Easily set in pressure output or pressure derivative output mode
- Outside temperature and absolute pressure sensors included
- On site easily adjustable according to the altitude

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