TECHNICAL SPECIFICATIONS

TRANSDUCER BLOCK

Bandwidth (f -3 dB)	Pressure output: 0,01 - 27 Hz Pressure derivative output: DC - 27 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: 6 V/Pa
Auviliant outputs:	

Auxiliary outputs:

 $[-40; +110]^{\circ}C$, 10 mV/°C, ±0,2°C • Temperature sensor

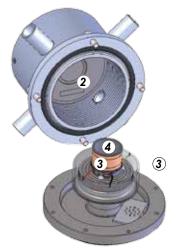
• Atmospheric pressure

sensor

[150 ; 1150] hPa, 1 mV/hPa offset stability: 0,25% full scale / uncertainty: 1,5% full scale

ANALOG HOOD

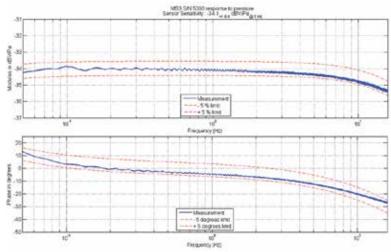
Output range	24 V pp
Output type	Differential (symmetric)
Output impedance	2 × 50 Ω
Dynamic range	Output P (Pa):
	Output P (Pa): ±min (12000 [Pa/s]/2.π.f[Hz] ; 1200[Pa]) Output dP: ±12000 (Pa/s)



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



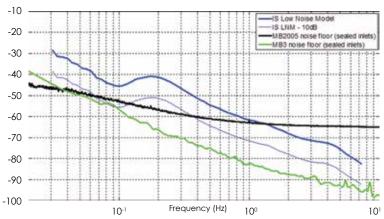
SENSOR SENSIBILITY RESPONSE



theoretical response (amplitude \pm 5%, phase \pm 5%)

SELF NOISE

Low instrumental noise < 10 db under LNM



ENVIRONMENTAL SPECIFICATIONS

Operating temperature Storage temperature Seismic sensitivity

Sealing Shock / Drop

Transport

EMC

-20°C to + 50°C -30°C to +70°C

< 30 Pa/m.s-2

CEI 60529-IP67 (with acoustic inlets sealed) NF EN 60721-3-1, 2M1 (free fall, impact, shock)

NF EN 60721-3-2, 2M3 (vibration)

NF EN 55024 classes A & B (immunity) NF EN 55022 class B (emission)

^{*} Band Limited Dynamic Range



MB3d Hood: is compatible with the Transducer block. This hood is a 24 bit low consumption digitizer with 1GB memory.

It is delivered with Dionisos software dedicated to data download and sensor monitoring

Packaging:

ScrewPack for 1 unit Transport case for 6 units







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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)



- Wide dynamic range
- Lab calibrated (Calibration 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