

MBB-2

Miniature 120s BroadBand Seismometer

The Mini BroadBand Seismometer (MBB-2) is the latest sensor offering from Metrozet for vault or posthole installations. The MBB-2 offers high performance features in a small, rugged, low power and low cost system that is easy to install and deploy. Built with ease of installation in mind, the MBB-2 does not require mass lock, mass centering, and has a large operational tilt range which reduces installation time. The MBB-2 was engineered from the ground up to deliver best-in-class performance.

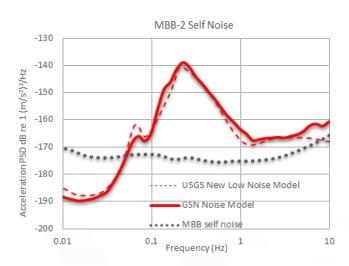






FEATURES

- · No mass lock required
- · No mass centering required
- Small, portable, 120 second broadband sensor
- · Large operational tilt range
- Stainless steel housing rated IP68 with oceanographic-grade connector
- Noise that is below the NLNM from 20 seconds to 8 Hz







SPECIFICATIONS

Triaxial orthogonal, XYZ oriented Sensor Technology

feedback sensor elements with capacitive displacement

transducer

Sensitivity 750 V/(m/s) nominal, (optional 1500 V(m/s)),

trimmed to \pm 1% precision

Bandwidth -3 dB points at 120 seconds and 160 Hz

Operable Tilt Range ± 2.5 Degrees

Dynamic Range: 155 dB at 1 Hz

Clipping Level: 26 mm/s peak from 0.0083 Hz to 40 Hz;

proportional to 1/f above 40 Hz, reaching 10 mm/s at 100 Hz; proportional to 1/f² below 0.0083 Hz

Velocity Output Industry standard 40 V peak-to-peak

differential output

Mass Position Output Independent mass position output for each

of the XYZ axes

Calibration Calibration input for XYZ components; single

digital control line to activate calibration on

all three axes

Short Period Mode 1sec mode used for quick

deployment; digital control line enables short period mode on all three

axes

Voltage Input 9-36 V DC input (internally isolated)

Electrical Protection Over-voltage, reverse-voltage, and

current overload protection

Galvanic Isolation Power input and digital control lines

(setup mode and calibration enable lines have

independent galvanic isolation)

-40 to +60 °C **Operational Temperature**

Power Consumption 240 mW

Posthole Orientation Yoke adapter and orientation poles available

Physical Dimensions Height: Sensor Body and Connector: 5.44 inches

(13.8 cm)

Including Fixed Feet: 5.67 inches (14.4 cm)

Diameter: 3.875 inches (9.8 cm) Weight: 6.5 pounds (2.95 kg)

Specifications subject to change without notice



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