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

**MBB-2**

**Miniature 120s BroadBand Seismometer**

**SPECIFICATIONS**

**Sensor Technology**
Triaxial orthogonal, XYZ oriented feedback sensor elements with capacitive displacement transducer

**Sensitivity**
750 V/(m/s) nominal, (optional 1500 V/(m/s)), trimmed to ± 0.5% 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/f 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**
1 sec 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)

**Operational Temperature**
-40 to +60 ºC

**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.