



P B M

BASE STATION MAGNETOMETER

This base station magnetometer system can support up to two cesium magnetometer sensors simultaneously.

The system is based on the Pico Envirotec designed magnetometer board and is equipped with a Cesium magnetometer sensor, a non-magnetic tripod mount and a data logger unit.

The newly developed data acquisitions/interface system is based on the state-of-the-art Android OS and can be hosted on any portable device such as a smart-phone, a tablet or a notebook.

The interface software allows the user to set and control the acquisition of mag data in real time.

The acquired data is automatically synchronized with GPS time and position.

The data is saved on internal SD memory cards in binary PEI format. Advantages of the PBM system include high sensitivity, compact size, robustness and simplicity.

SPECIFICATION HIGHLIGHTS

- Resolution: 0.2 pT
- Dynamic range: 15,000 - 100,000 nT
- Sampling rates: 5, 10, 20, 25, 30, 50, 60, 100, 120 Hz
- Data storage on robust compact flash storage media
- Operating temperature range: -10° to +50° C
- Weather resistant packaging
- Power Consumption: approx 20 W (console and processor only); Cesium sensor requires 30 VDC operating voltage, and requires approximately 70 Watts at startup for approximately 2 minutes, then 25 Watts in continuous operation (sensor dependent).
- Internal GPS receiver with integrated antenna for time keeping
- External GPS receivers is optional
- Size: approximately 300 mm H x 250 mm W x 120 mm D
- Weight : approximately 2.5 kg
- Power booster for Cs sensor: 24V DC to 32 VDC @ 150 Watts Battery operation 24V DC (batteries not provided)

