



Waterproof Reference Head



In-Line Anchor

Applications

The Digital MPBX is a multi-point borehole extensometer that can be installed quickly with minimal impact in busy locations that are difficult to access, such as city streets.

MPBX Operation

MPBX components include anchors, rods, and reference head housing displacement sensors.

Anchors and rods are installed at specified depths in the borehole. Rods run upwards from the anchors to the reference head at the borehole collar. Sensors inside the reference head monitor the rods, which follow the upward or downward movement of the anchors.

Digital MPBX Advantages

Small Diameter: The Digital MPBX bundles rods into a single flexible tube with anchors set in line along the length of the tube. The result is a small-diameter instrument that is easier to install.

Digital Output: On-board processing converts sensor measurements to engineering units and outputs ASCII data to an RS-485 bus. This provides wide compatibility and simple connection to digital dataloggers.

Waterproof: The entire MPBX, including the reference head is waterproof and can be terminated below grade, allowing room for a data logger.

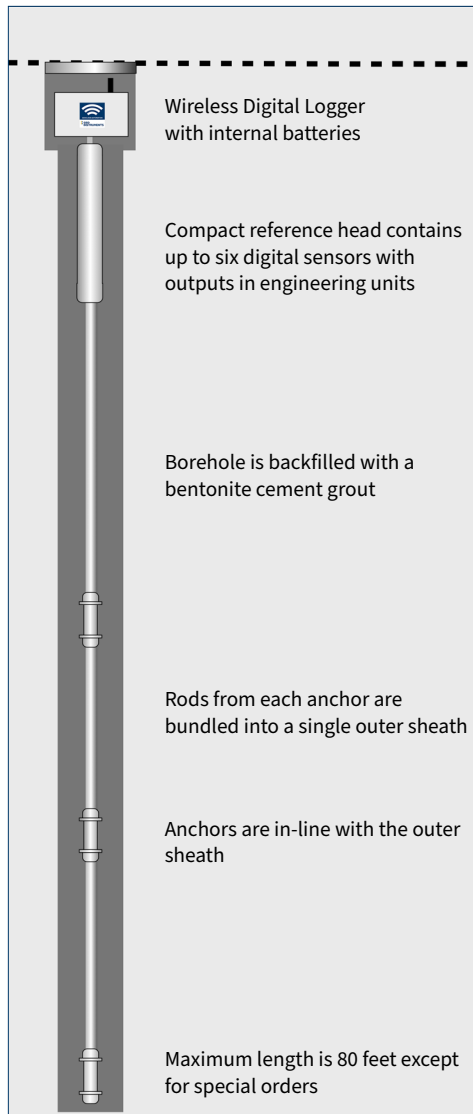
Specifications

Sensor Type LVIT (Linear Variable Inductive Transducer) with digitized output.

Range: 125, 150, 200, or 250 mm.

Resolution: 0.01 mm.

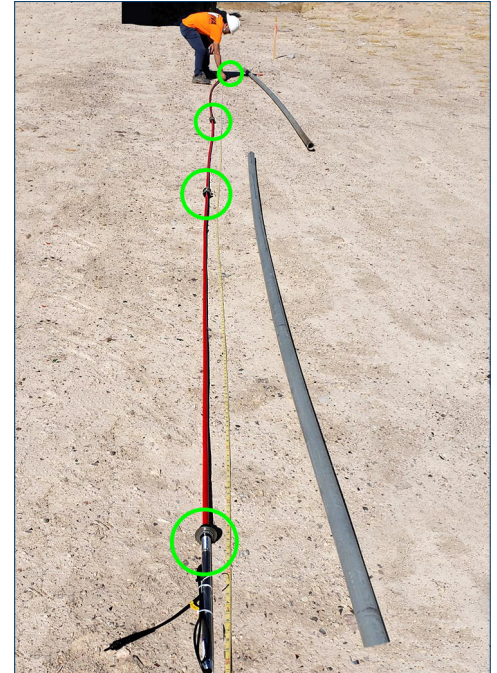
Accuracy: ± 0.05 mm.



Data Output: 100 character ASCII strings with ID, time-date stamp, and value.

Communications: RS-485, compatible with most digital loggers.

Measurement Points: Up to 6 measurement points per MPBX.



Checking anchor depths and installing



MPBX Diameter: 1 inch for rods and head, 1.75 inch for anchors.

Materials: stainless steel rods inside a polycarbonate sheath. Aluminum alloy anchors and head.