_ MEXID
MINIATURIZED MPBX

EXTENSOMETERS
& JOINT METERS

SISGEO
The MEXID is a small-diameter Multi-Point Borehole Extensometer (MPBX) designed for 50mm (2”) boreholes.

The MEXID is shipped preassembled, ready to monitor up to four points. The system incorporates steel anchors, fiberglass rods, dedicated grouting tubes, and vibrating wire or 4-20mA displacement transducers.

The stainless steel extensometer head installs flush with the surface, minimizing any obstruction of the work area.

**APPLICATIONS**
- Tunneling
- Deep excavations
- Dams
- Foundations
- Settlement monitoring
- Rock displacements

**FEATURES**
- Ships ready to install
- Fits 50mm (2”) boreholes
- Monitors up to 4 points
- Installs flush with surface

Meet the essential requirements of the EMC Directive 2004/108/EC
TECHNICAL SPECIFICATIONS

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<th>VERSION</th>
<th>MEXID WITH POTENTIOMETER TRANSDUCERS</th>
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<td>Range</td>
<td>50 mm</td>
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<td>150mm</td>
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<td>Product codes (1)</td>
<td>0D2MX01A050 (1 point)</td>
<td>0D2MX01W050 (1 point)</td>
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<td>0D2MX02A050 (2 points)</td>
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<td>0D2MX03A050 (3 points)</td>
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**INSTRUMENT HEAD**

| Diameter / length | 48.3 mm / 476 mm (1.9'/19") | 48.3 mm / 816 mm (1.9'/32") |
| Material         | stainless steel             | stainless steel            |

**DISPLACEMENT TRANSDUCERS (2)**

| Output signal     | 4-20mA (displacement), Ohm (temperature) |
|                  | ±0.20% FS                             | ±0.15% FS                  |
|                  | -                                     | -20°C to +80°C             |

| Typical frequency range (4) | 2250 - 3000 Hz |
|                            | -20°C to +80°C |

| Operating temperature   | -20°C to +80°C |

**ANCHORS**

| Diameter / Length       | OD 16 mm / 400 mm (5/8" / 16") |
| Material               | galvanized steel rebar |

| RODS AND SLEEVES |
| Product code | 0D221BMFG00 |
| Rods diameter / material | OD 7 mm / fiberglass |
| Rods length | specify depth for each anchor |
| Sleeves diameter / material | OD 12 mm / nylon 11 (nilsan) |

| CABLE | 0WE1160LSZH |
| Max. cable length to logger (6) | 1000 m (3280') for more information see FAQ#77 |

(1) Product code includes instrument head, displacement transducers, and anchors. Cable and rods are attached at factory, but specified with separate product codes.
(2) Displacement transducers are set midrange at factory. Specify different setting, if required.
(3) Including linearity, hysteresis, and repeatability.
(4) Frequency range may vary ±10%.
(5) Cable attached at factory. Specify length from MEXID head to readout station (or logger).
(6) Refer to FAQ section of Sisgeo website: www.sisgeo.com/faq.

PHYSICAL FEATURES

- braided steel sleeve, 1m
- signal cable
- thermistor
- displacement transducer
- nylon sleeve
- fiberglass rod

476 mm for 50 mm range - 816 mm for 150 mm range
**COMPARISON MEXID VS MPBX**

**MEXID**
- Required drill hole: Ø 50 mm (2’), Ø 75 mm (3’’) first meter
- Flush mount maximizes clearance
- Enclosed transducers

**MPBX MULTIPOINT BOREHOLE EXTNSOMETER**
- Required drill hole: Ø 101 mm (4’’), Ø140 mm (5.5’’) first meter
- Stick out reduces clearance up to 510 mm
- Transducers installed at site

**ACCESSORIES AND SPARE PARTS**

**FIBERGLASS ROD**
- 0D221BMFG00
  - Fiberglass measuring rod (Ø 7 mm) with nylon antifriction sleeve (Ø 12 mm). Supplied already mounted.

**16-WIRE SIGNAL CABLE**
- 0WE1160LSZH
  - Multicore cable with 8 pairs of 24 AWG wire and LSZH jacket. Used to connect instruments to multiplexer, switch box, or datalogger.

**MULTIPLEXER BOX**
- 0OMNOOMUXBO
  - Multiplexer board with surge protection, housed in IP67 box. Local operation with New Leonardo readout; remote operation with datalogger connected by RS484 digital bus.
TECHNICAL ASSISTANCE

SISGEO offers customers e-mail and phone assistance to ensure proper use of instruments and readout and to maximize performance of the system.

For more information, email us: assistance@sisgeo.com