

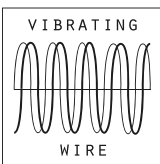
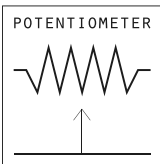
D2MX

MEXID
MINIATURIZED MPBX

EXTENSOMETERS
& JOINTMETERS



MEXID MINIATURIZED MPBX



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

The MEXID is ready to monitor up to four points. The system incorporates steel anchors, fiberglass rods, dedicated grouting tubes, and vibrating wire or potentiometer displacement transducers. The output can be chosen between analogue (frequency or 4-20mA) or digital RS485 communication with MODBUS RTU protocol

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

- Fits 50 mm (2") boreholes
- Monitors up to 4 points
- Install flush with surface
- Available with digital output

CE *Meet the essential requirements of the EMC Directive 2014/30/UE*

TECHNICAL SPECIFICATIONS

Model	MEXID WITH POTENTIOMETER TRANSDUCERS				MEXID WITH VW TRANSDUCERS	
	Electric 4-20mA (available only under request)		Digital RS-485		Vibrating wire	
Range	50mm	150mm	50mm	150mm	50mm	150mm
Product codes ⁽¹⁾ ("NP" means number of points)	0D2MX01A050 (1P) 0D2MX01A150 0D2MX02A050 (2P) 0D2MX02A150 0D2MX03A050 (3P) 0D2MX03A150 0D2MX04A050 (4P) 0D2MX04A150		- - 0D2MX02D050 (2P) 0D2MX02D150 0D2MX03D050 (3P) 0D2MX03D150 0D2MX04D050 (4P) 0D2MX04D150		0D2MX0WA050 (1P) 0D2MX01W150 0D2MX02W050 (2P) 0D2MX02W150 0D2MX03W050 (3P) 0D2MX03W150 0D2MX04W050 (4P) 0D2MX04W150	
INSTRUMENT HEAD						
Diameter / length	48.3 mm / 476 mm 48.3 mm / 816 mm		48.3 mm / 476 mm 48.3 mm / 816 mm		48.3 mm / 476 mm 48.3 mm / 816 mm	
Material	stainless steel		stainless steel		stainless steel	
DISPLACEMENT TRANSDUCERS ⁽²⁾						
Output signal	4-20mA (displacement) Ohm (temperature)		RS485 non-optoisolated comm. with MODBUS RTU protocol ⁽³⁾		frequency (displacement) Ohm (temperature)	
Accuracy Pol. MPE ⁽⁴⁾	±0.20% FS ±0.15% FS		±0.20% FS ±0.15% FS		±0.30% FS ±0.30% FS	
Typical frequency range ⁽⁵⁾	-		-		2250 - 3000 Hz	
Operating temperature	-20°C to +80°C		-20°C to +70°C		-20°C to +80°C	
ANCHORS ⁽⁶⁾						
Diameter / Length	OD 16 mm / 400 mm		OD 16 mm / 400 mm		OD 16 mm / 400 mm	
Material	galvanized steel rebar		galvanized steel rebar		galvanized steel rebar	
RODS AND SLEEVES						
Product code	0D221BMFG00		0D221BMFG00		0D221BMFG00	
Rods diameter / material	OD 7 mm / fiberglass		OD 7 mm / fiberglass		OD 7 mm / fiberglass	
Rods length	specify depth for each anchor		specify depth for each anchor		specify depth for each anchor	
Sleeves diameter / material	OD 12 mm / nylon 11 (rilsan)		OD 12 mm / nylon 11 (rilsan)		OD 12 mm / nylon 11 (rilsan)	
CABLE						
Product code ⁽⁷⁾	0WE1160LSZH		0WE106IP0ZH		0WE1160LSZH	
Max. cable length to logger ⁽⁸⁾	1000 m (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) RS485 non-optoisolated Modbus communication with RTU Protocol. Legacy mode is not supported by this instrument. Default output is mm, other units available under request (to be requested at order). Sisgeo Modbus protocol manual is available for download on www.sisgeo.com.

(4) Pol. MPE is the polynomial Maximum Permitted Error on the measuring range (FSR).

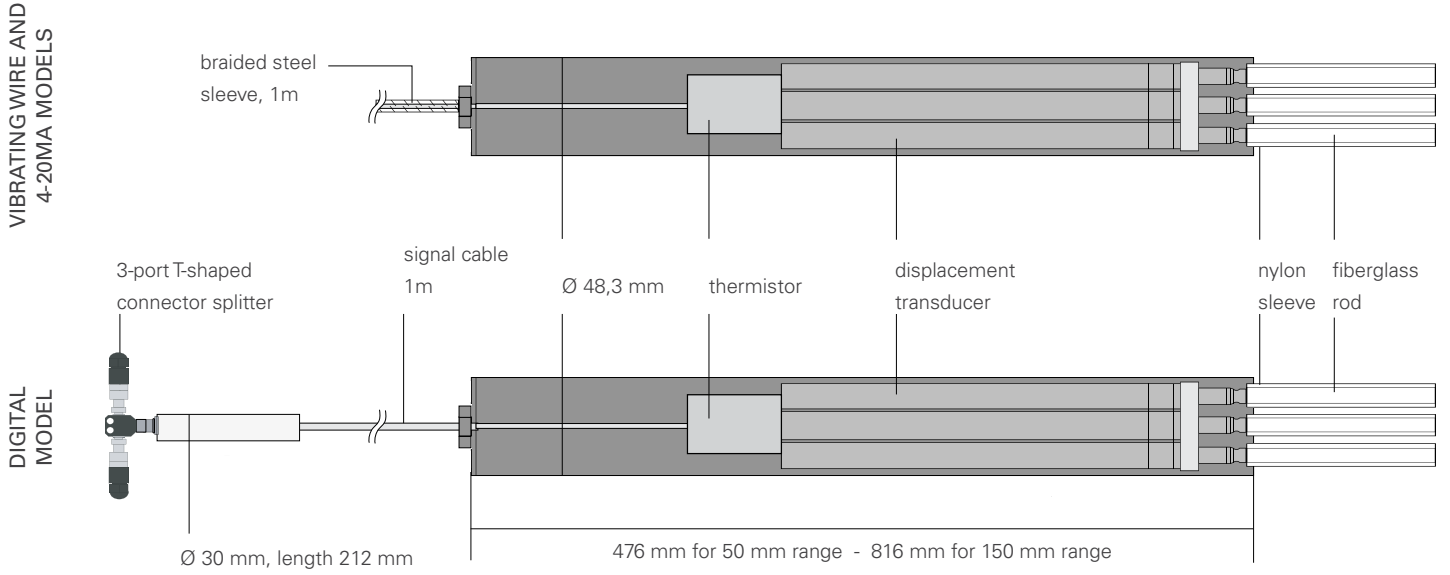
(5) Frequency range may vary ±10%.

(6) Anchors will be assembled at site screwing them to the end of the rods

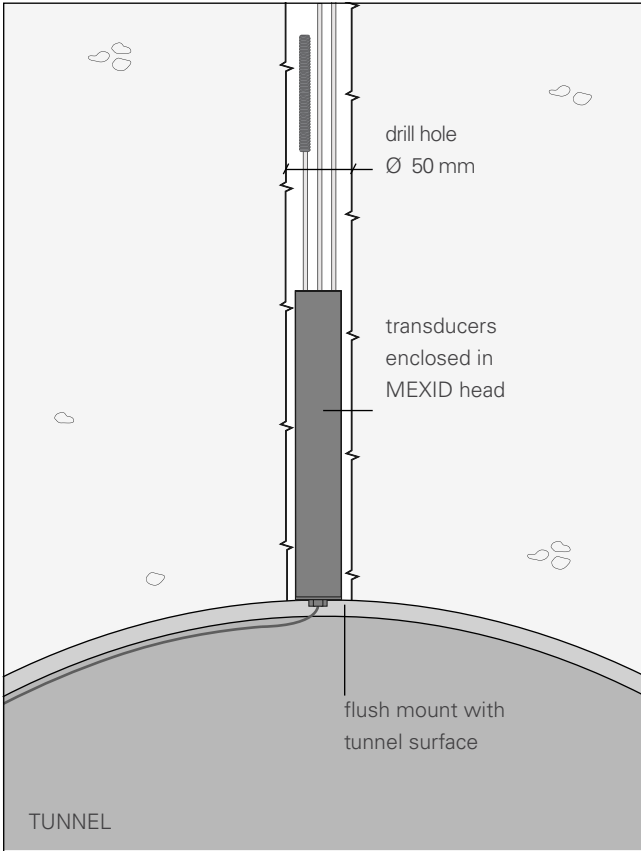
(7) Cable attached at factory. Specify length from MEXID head to readout station (or logger).

(8) Refer to FAQ section of Sisgeo website: www.sisgeo.com/it/assistenza/faq.html

PHYSICAL FEATURES

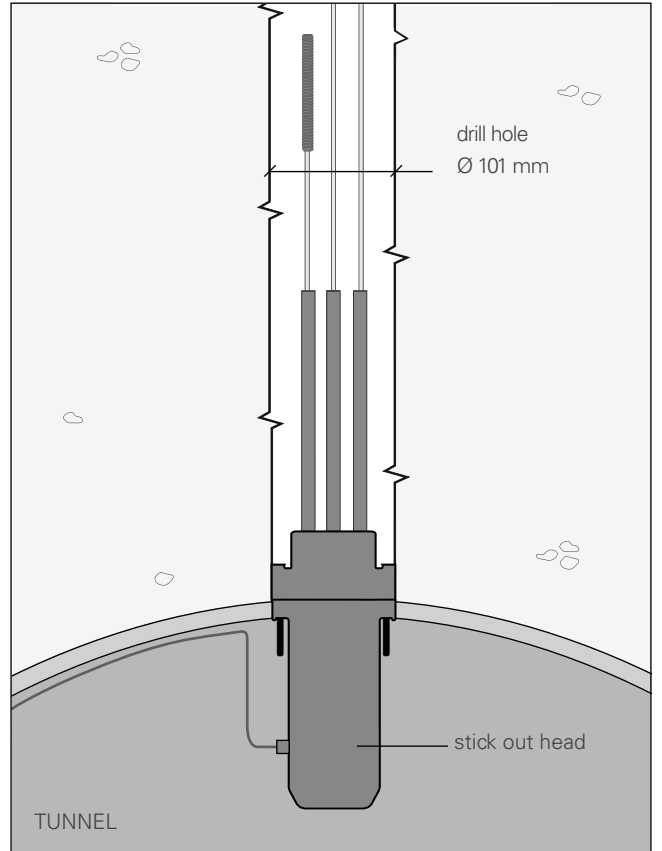


COMPARISON MEXID VS MPBX



MEXID

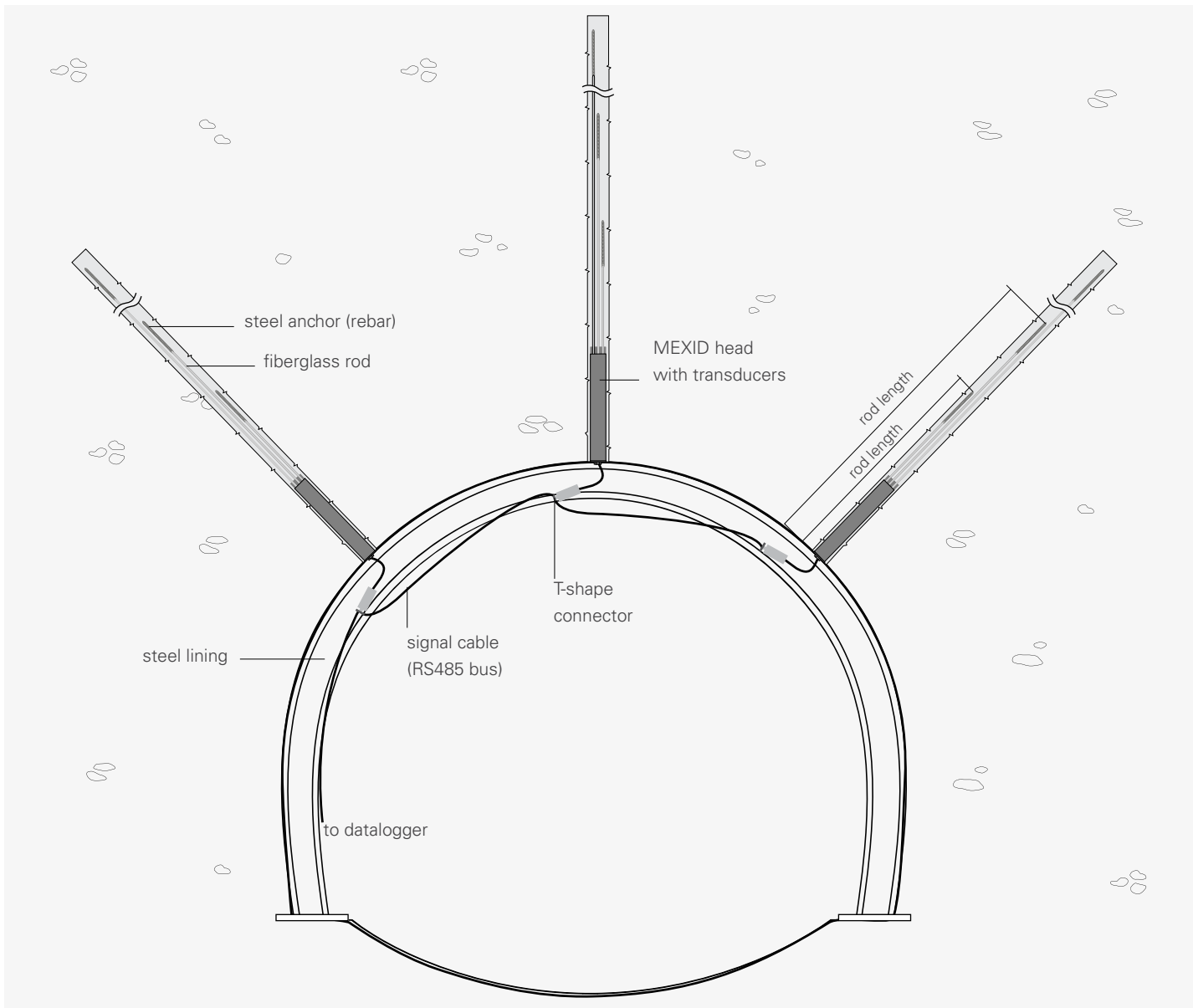
Required drill hole: Ø 50 mm (2"), Ø 75 mm (3") first meter
 Flush mount maximizes clearance
 Enclosed transducers



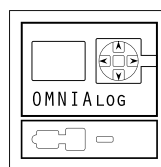
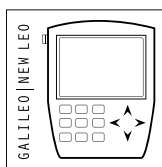
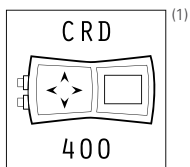
MPBX MULTIPOINT BOREHOLE EXTNSOMETER

Required drill hole: Ø 101 mm (4"), Ø 140 mm (5.5") first meter
 Stick out reduces clearance up to 510 mm
 Transducers installed at site

TYPICAL TUNNEL APPLICATION WITH DIGITAL MEXID



READABLE BY



(1) Only for analogue version

Refer to separate datasheets for further information.

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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.

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