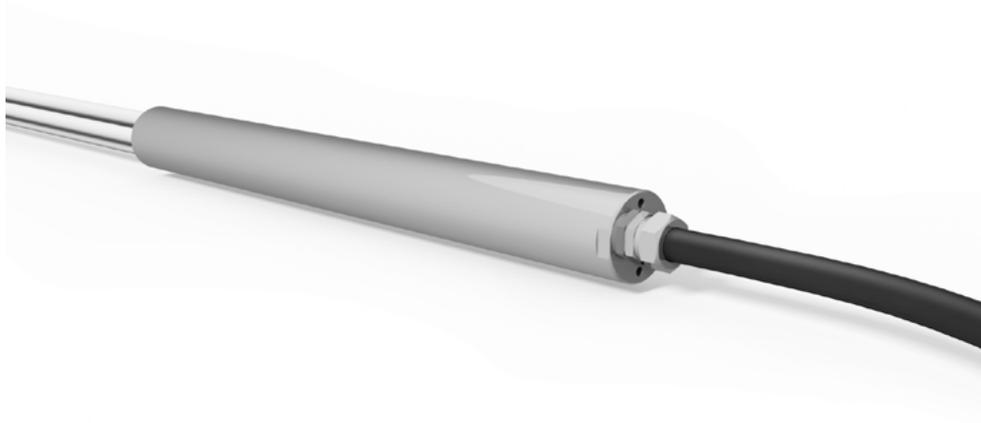


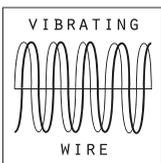
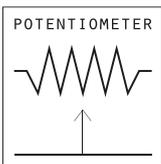
D2MX

**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, and vibrating wire or potentiometer transducers. Grouting tubes are not supplied. The output can be chosen between vibrating wire or digital RS485 communication with MODBUS RTU protocol (4-20mA available only under request)

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
- Installs flush with surface

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

# TECHNICAL SPECIFICATIONS

VERSION	DIGITAL MEXID WITH POTENTIOMETER		MEXID WITH VW TRANSDUCERS	
	50 mm	150mm	50 mm	150mm
Range				
Product codes <sup>(1)</sup> (points)	- 0D2MX02D050 (2 points) 0D2MX03D050 (3 points) 0D2MX04D050 (4 points)	- 0D2MX02D150 (2 points) 0D2MX03D150 (3 points) 0D2MX04D150 (4 points)	0D2MX01W050 (1 point) 0D2MX02W050 (2 points) 0D2MX03W050 (3 points) 0D2MX04W050 (4 points)	0D2MX01W150 (1 point) 0D2MX02W150 (2 points) 0D2MX03W150 (3 points) 0D2MX04W150 (4 points)
INSTRUMENT HEAD				
Diameter / length	48.3 mm / 476 mm (1.9"/19")	48.3 mm / 816 mm (1.9"/32")	48.3 mm / 476 mm (1.9"/19")	48.3 mm / 816 mm (1.9"/32")
Material	stainless steel		stainless steel	
DISPLACEMENT TRANSDUCERS <sup>(2)</sup>				
Output signal	RS485 non-optoisolated comm. with MODBUS RTU protocol <sup>(3)</sup>		frequency (displacement), Ohm (temperature)	
Accuracy MPE <sup>(3)</sup>	±0.20% FS	±0.15% FS	±0.30% FS	±0.30% FS
Typical frequency range <sup>(4)</sup>	-		2250 - 3000 Hz	
Operating temperature	-20°C to +70°C		-20°C to +80°C	
ANCHORS <sup>(5)</sup>				
Diameter / Length	OD 16 mm / 400 mm (5/8" / 16")		OD 16 mm / 400 mm (5/8" / 16")	
Material	galvanized steel rebar		galvanized steel rebar	
RODS AND SLEEVES				
Product code	0D221BMFG00		0D221BMFG00	
Rods diameter / material	OD 7 mm / fiberglass		OD 7 mm / fiberglass	
Rods length	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)	
CABLE				
Product code <sup>(6)</sup>	0WE1160LSZH		0WE1160LSZH	
Max. cable length to logger <sup>(7)</sup>	1000 m (3280') for more information see <a href="#">FAQ#77</a>		1000 m (3280') for more information see <a href="#">FAQ#77</a>	

(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](http://www.sisgeo.com).

(4) MPE is the Maximum Permitted Error on the measuring range (FSR). In the Calibration Report, the accuracies of the gauge are calculated using the linear regression; the error reported is the maximum residual error on the FSR.

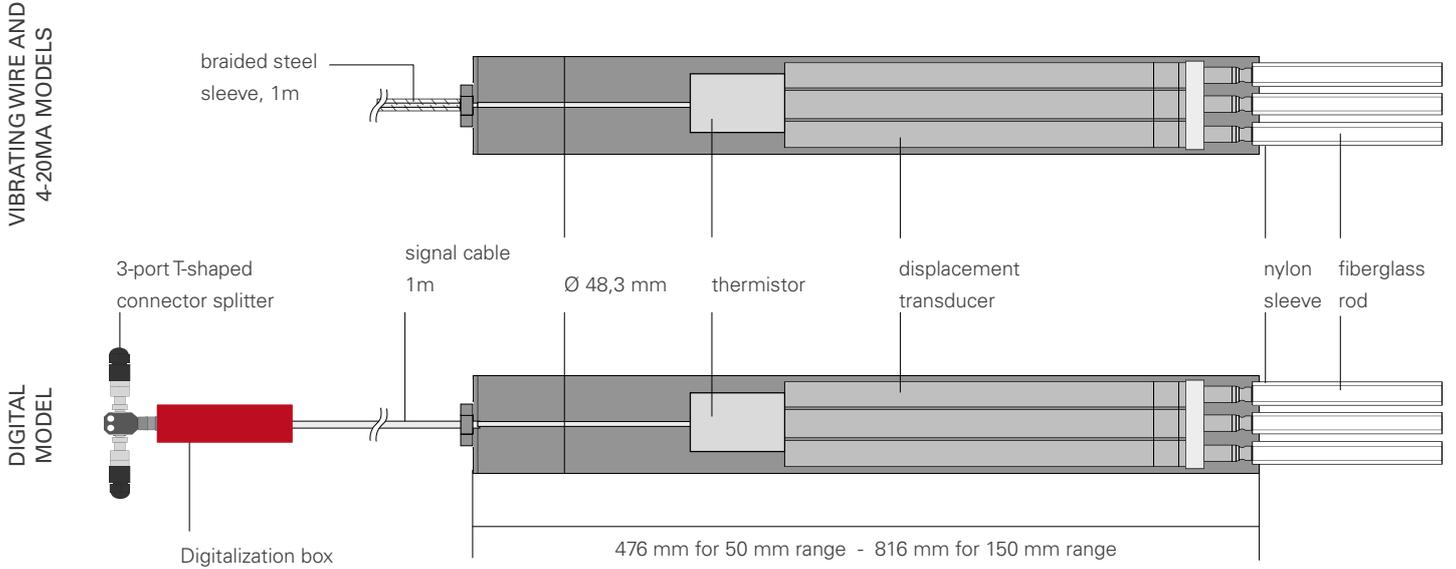
(5) Frequency range may vary ±10%.

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

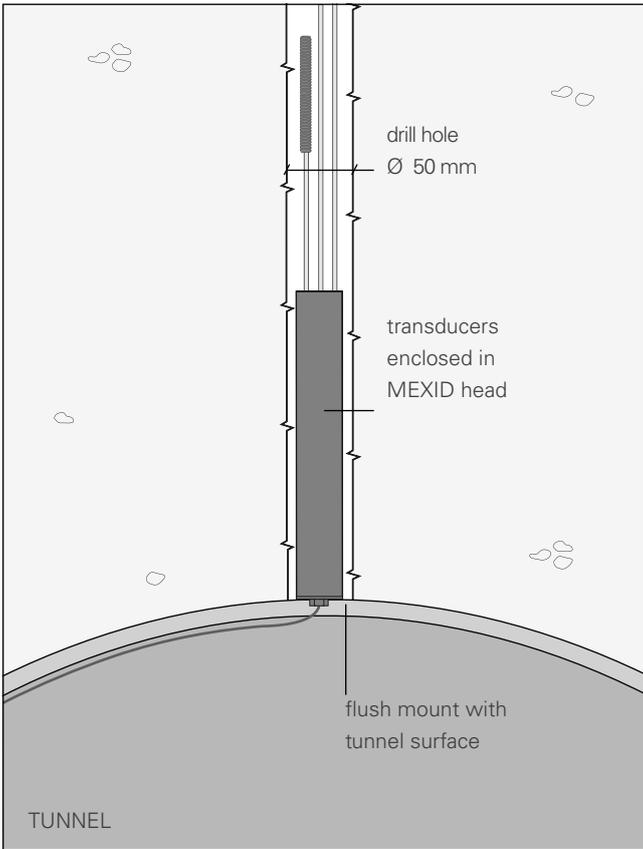
(7) Cable attached at factory. Specify length from MEXID head to readout station (or logger).

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

## PHYSICAL FEATURES

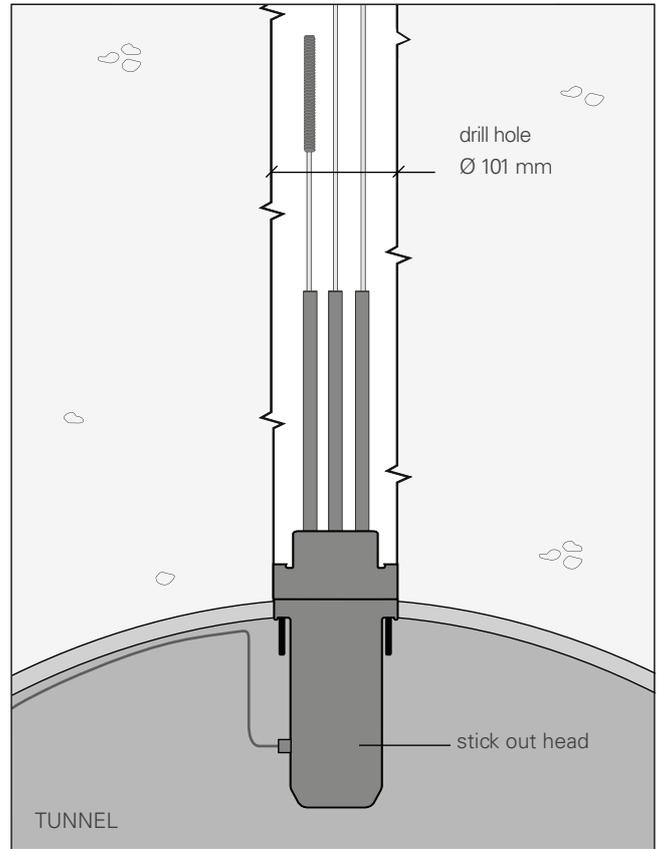


## COMPARISON MEXID VS MPBX



**MEXID**

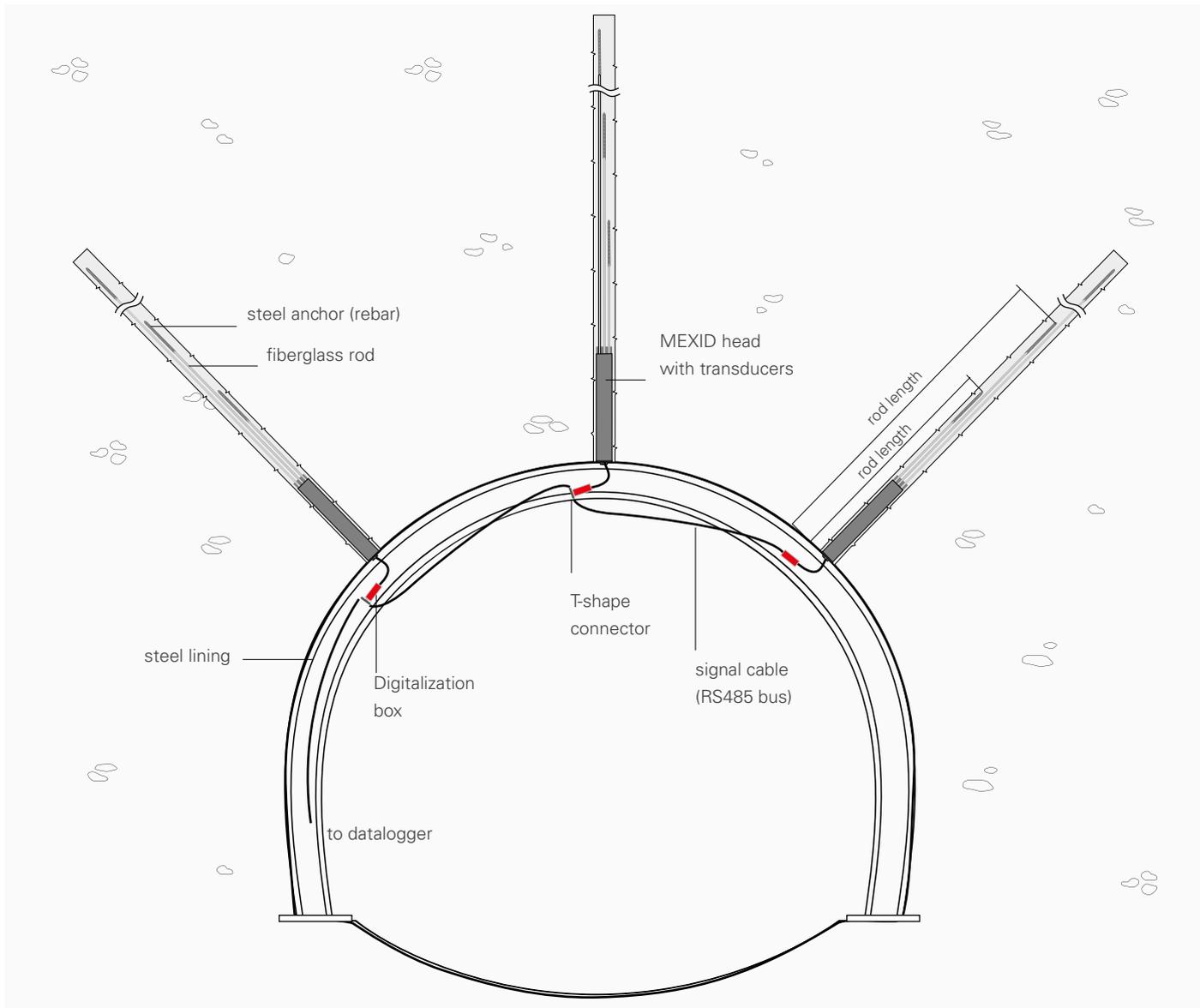
Required drill hole: Ø 50 mm (2"), Ø 75 mm (3") first meter  
 Flush mount maximizes clearance  
 Enclosed transducers



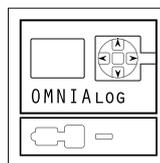
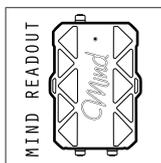
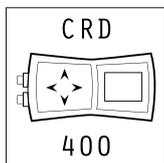
**MPBX MULTIPOINT BOREHOLE EXTNSOMETER**

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



For further information refer to their own datasheets

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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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