VIBRATING WIRE CRACK METER

TECHNICAL FEATURES

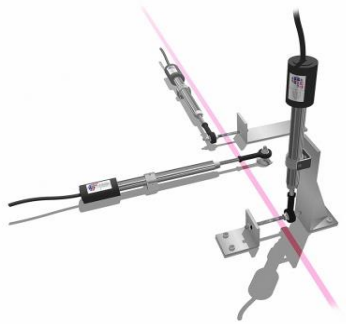
- ✓ Type of sensor: Vibrating Wire;
- ✓ Resolution: +/- 0.025% F.S.;
- ✓ Accuracy: +/- 0.1% F.S.;
- ✓ Output signal: Hz;
- ✓ Operating temperature: -20° C + 80° C;
- ✓ Material: stainless steel AISI 304;
- ✓ Protection class: IP 67.

The vibrating wire crack meter is used for the continuous measurement of the evolution of the structural opening joints, cracks and construction joints in concrete.

The tool is constituted of a cylindrical body inside which is housed the displacement transducer and a sliding rod connected to the same vibrating wire transducer translates the movements (widening or narrowing) of the slot to be monitored into an differencial frequency.
The two ends of the sensor are fixed, by means of blocks, straddling the same crack.

It can have different measuring ranges depending on the type of application.

To evaluate the three-dimensional movement of the crack, you can install the crack meter arranged in three main directions. (x-y-z).



Three-dimensional monitoring of a crack. Installation in three main direction of space.

Crack meters from 25 and 300 mm

DIMENSIONAL SPECIFICATIONS				
measuring range (mm)	25	50	100	150
compressed length (mm)	225	275	325	375
extended length (mm)	280	325	430	480
body diameter (mm)	11			
head diameter (mm)	5			
material	AISI 304			
weigth (gr)	80	90	170	255

earth system | Earth System srl - Via Robert Koch 53/A 43123 Pilastrello - PARMA - ITALY | tel. +39 (0) 521 394595 - Fax +39 (0) 521 1682044 e-mail: info@earthsystem.it