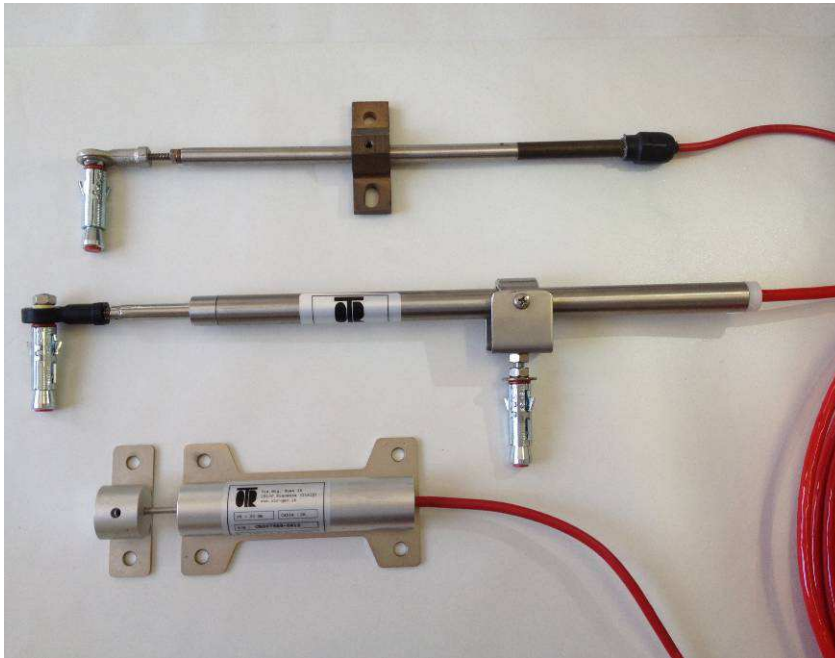


Crackmeters OG400



Applications

Monitoring of fractures and control of structures, buildings of historical importance. They have been produced different types of crackmeters.

The crackmeters are used in the following applications:

- Fracture surface of civil buildings and historical monuments
- Walls and rock masses
- Bridges, viaducts and artifacts in general
- Structural joints in concrete dams

Technical features

OG400 model A crackmeters can be used in tough environments which may even require brief immersions. This model is specifically studied to be mounted on rocks. The instrument allows a precise monitoring of relative movements of cracks and rocks. Installation is made easier by two M6 uniball joints, with a 6mm hole, placed at the ends of the device. The sliding bar can be extended for complex installations. Readings in mm can be obtained through a manual readout unit (OG180) or a datalogger and a 4-20mA converter for potentiometers.

The uniball joints at both ends of the device make the fixing easier and allow the transducer to monitor uneven and non linear movements. The high degree of protection makes the instrument reliable even in tough installations. M6-type male screw thread can be requested at both the sensor sides, for extensions and adaptors.

The relatively low resistance allows the instrument to be insensitive to interferences and external electrical noise, even at medium distances. The transducer can be equipped with a 4-20mA.

OG400 model B crackmeters are suitable for internal application (cracks on houses, civil buildings) and when the surface of the fracture is planar.

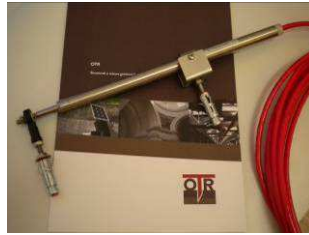
OG400VW is vibrating wire technology crackmeter with a built in NTC3K thermistor.

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Technical specifications

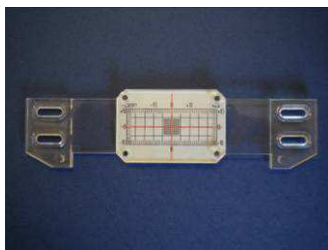


Code	OG400A O00CRK00XX0	OG400B OTSCRK000XX	OG400VW OVWCRK00XX0
Description	Electric crackmeter outdoor installation	Electric crackmeter indoor installation	vibrating wire crackmeter with NTC3K sensor integrated
Range	50, 100 mm	10, 45 mm	50, 100, 150 mm
No linearity	+/- 0.05% F.S.	+/- 0.2% F.S.	+/- 0.2% F.S.
Accuracy	< 0.3% F.S.	< 0.3% F.S.	< 0.4% F.S.
Temperature working	from -20°C to +80°C	from -20°C to +80°C	from -20°C to +80°C
Output signal	mV/V – 4-20 mA (available with transmitter 4-20 mA)		Hz
Material	Stainless steel	Aluminium	Stainless steel
Diameter	15 mm	25 mm	16 mm
Protection	IP 67	IP 65	IP 67
	Supplied complete with ball joint for movements nonlinear	Fixing holes for installation on flat fractures	Supplied complete with ball joint for movements nonlinear

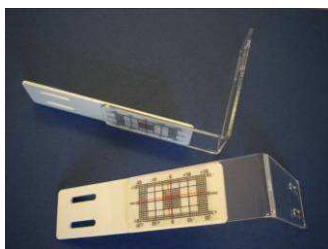
Connection cables

Code **OCABLE00000** 2x2x0.25 cable polietilene, shielded 5 mm

Code **OCABLE00001** 3x2x0.35 cable pur, shielded 8 mm



(Code **OFSM0TT1SP0**)



(Code **OFSM0TT2ANG**)

Installation and reading are very easy, for non-experts too.

Mechanical crackmeters

Mechanical crackmeters can easily be installed across cracks and fractures of building, indoor or outdoor.

- Plastic material
- Biaxial millimetric calibrated grid
- Versions for linear or angular installations
- Mounting holes
- Fixing nails for zero-setting (linear version)

Installation is simple, thanks to the mounting holes.

As a linear crackmeter is fixed, its grid is set at zero. Afterwards, blocking nails are removed to allow the device to freely follow crack movements.

Accessories



4-20 mA transmitter
(Code **O00LCE00420**)
Inside a Junction box



Watertight connector
(Code **OCONST00000**)