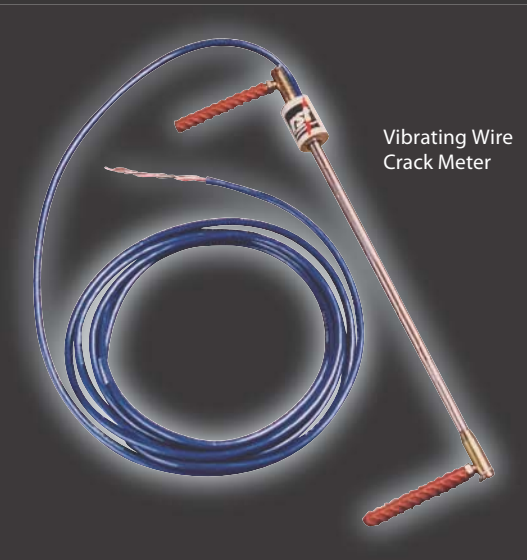


RST's Crack Meters are designed to measure movement across surface cracks and joints. Crack Meters are available in 3 versions:

- 1) The **Electrical Crack Meter** consists of a moveable slider that makes electrical contact along a fixed resistance strip. A regulated DC voltage is applied to the two ends of the resistance strip and the voltage is measured between the slider and one of the end points.
- 2) **3-D Crack Meters** may be read manually, or equipped with a vibrating wire transducer for automated monitoring.
- 3) **Vibrating Wire Crack Meters** are easily installed by grouting, bolting or bonding the two threaded anchors (with ball joints) on either side of the crack/joint, and then reattaching the anchors to the sensor.



3-D Crack Meter



Vibrating Wire Crack Meter

FEATURES

Rugged and reliable construction	Versatile
High accuracy & reliability	Low cost
Full performance in hostile environments	Long-term stability

FUNCTIONS

- Monitor crack separation or convergence, in concrete structures
- Monitor joints for movement caused by nearby geotechnical activity
- Alarm triggering when separation or convergence, of two reference points, reach a preset critical rate or value

SENSOR SPECIFICATIONS

3-D CRACK METERS with VW TRANSDUCER and VIBRATING WIRE CRACK METERS

DESCRIPTION	SPECIFICATIONS
Range	25, 50, 100 mm (1, 2, or 4 in.) other ranges available
Standard Range	1" (2 & 4" options available)
Accuracy	Depends on accuracy of readout



Electrical Crack Meter

Specifications may change without notice. EXB0007F

CRACK METERS



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 Toll Free (USA & Canada): 1-800-665-5599
 Email: info@rstinstruments.com
www.rstinstruments.com

The RST Instruments Management System is certified to ISO 9001:2000



ELECTRICAL CRACK METER SPECIFICATIONS

DESCRIPTION	SPECIFICATIONS
Weight	0.68 kg (1.5 lbs.)
Material	Mild steel
Diameter	37 mm (1.4 in.)
Length	350 mm (13.75 in.)
Height	114 mm (4.5 in.)

OPTIONS (Specify when ordering)

Linearity to $\pm 0.1\%$

Extended Bar

ELECTRICAL CRACK METER SENSOR SPECIFICATIONS

ELECTRICAL LINEAR POSITION TRANSDUCER

DESCRIPTION	SPECIFICATIONS
Range (in 25 mm/1 in. increments)	12 to 152 mm (0.5 to 10 in.)
Linearity	1% (0.1% option)
Resistance	1500 Ω /in. electrical travel
Operating Temperature	-40° to 212°F (-40°C to 100°C)
Resolution	Infinite
Insulation Resistance	500 M Ω @ 500 Vdc
Dielectric Strength	1000 V rms
Power Rating	0.20 Watt/in. electrical travel
Recommended Wiper Current	<1 μ A

ORDERING INFORMATION

50 mm (2 in.)	EXRI1050
100 mm (4 in.)	EXRI1100
150 mm (6 in.)	EXRI1150
254 mm (10 in.)	EXRI1250



3-D CRACK METER SPECIFICATIONS

DESCRIPTION	SPECIFICATIONS
Weight	1.6 kg (3.5 lbs.)
Material	Stainless steel
Length	200 mm (7.8 in.)
Height	185 mm (7.3 in.)
Width	75 mm (3 in.)

3-D CRACK METER OPTIONS (Specify when ordering)

VW Transducer

Armoured cable

Readout

3-D CRACK METER ORDERING INFO

DESCRIPTION	VIBRATING WIRE	MECHANICAL
25 mm (1 in.)	VWCM025-3D	EXCM1000
50 mm (2 in.)	VWCM050-3D	EXCM2000
100 mm (4 in.)	VWCM100-3D	EXCM3000

VIBRATING WIRE CRACK METER SPECIFICATIONS

DESCRIPTION	SPECIFICATIONS
Weight	0.1 kg (.25 lbs.)
Shaft Material	Stainless steel
Anchor Material	Groutable
Length	318, 362, 527 mm (12.5, 14.25, 20.75 in.)
Shaft Dimensions	8 mm (.312 in.)
Coil Dimensions	25 mm (1 in.)

VIBRATING WIRE CRACK METER OPTIONS (Specify when ordering)

VW temp. sensor

Terminal boxes

Lightning protection

Junction boxes

VIBRATING WIRE CRACK METER ORDERING INFO

DESCRIPTION	PART NUMBERS
12 mm (0.5 in.)	VWCM012
25 mm (1 in.)	VWCM025
50 mm (2 in.)	VWCM050
75 mm (3 in.)	VWCM075
100 mm (4 in.)	VWCM100

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