

	PRODUCT CATEGORY:
	CRACK METER

3D Vibrating Wire Crack Meter

RST's 3D vibrating wire crack meter is a sophisticated instrument used for monitoring and measuring cracks in structures or geotechnical features. It's designed to provide precise and reliable data on the width and displacement of cracks in three orthogonal directions (vertical, horizontal, and lateral), allowing for comprehensive analysis of crack behavior and structural integrity.

To obtain measurements, the crack meter is installed across the crack by securely anchoring it to both sides. The sensor utilizes the principle vibrating wire technology.

> AVAILABLE CONFIGURATIONS

VIBRATING WIRE	OPTIONAL JUNCTION BOX
2D arrangements supplied upon request.	
Submersible (up to 200 m) versions are also available (for example, on the upstream perimeter joint of CFRD dams).	Custom Mounting is available upon request. Drilling template is also available upon request.

> APPLICATIONS

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 - requires use of data logger and GeoExplorer software or RSTAR Affinity digital suite.	

> FEATURES

Rugged & reliable construction.	High accuracy and readability.
Versatile.	Low cost.
Long-term stability.	Full performance in hostile site conditions.

VIBRATING WIRE		CABLE SPECS - FOR VIBRATING WIRE OR ELECTRICAL CRACK METERS	
SENSOR SPECIFICATIONS:		PART #	DESCRIPTION
DESCRIPTION	SPECIFICATIONS		
Range	25, 50, 100, 150, 200 mm	EL380004	Two twisted pair cable with polyurethane jacket.
Accuracy	0.1% F.S.		
Thermistor Type	NTC 3K Ohms @ 25°C	EL360008	Four twisted pair cable with polyurethane jacket. (For use with Junction Box arrangement)

ORDERING INFO (WITH GROUTABLE ANCHORS):

RANGES	PART #
25 mm	VWCM3D025
50 mm	VWCM3D050
100 mm	VWCM3D100
150 mm	VWCM3D150
200 mm	VWCM3D200

SUBMERSIBLE ORDERING INFO: (WITH ANCHORS)

DESCRIPTION	PART #
25 mm	VWCM3D025S
50 mm	VWCM3D050S
100 mm	VWCM3D100S
150 mm	VWCM3D150S
200 mm	VWCM3D200S

RST Instruments Ltd. reserves the right to change specifications without notice.



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Junction Box

WORKS WITH **fileDAQ** DATA LOGGERS **READY TO RUN** pre-assembled pre-wired pre-tested pre-programmed



GeoExplorer

