



» extensometers

Vibrating Wire Jointmeter



The RST Vibrating Wire Jointmeter is developed to monitor joints of mass concrete structures.

The instrument consists of two parts, a socket and the main body with a waterproof vibrating wire sensing gauge. During construction of the structure, the socket is secured to the form and embedded into a lift of the block to be constructed. After removal of the form, and prior to concreting of adjacent block, the gauge is screwed into the socket, set at the desired range and then embedded into concrete.

Opening and closing of joint is then measured by the gauge, which is firmly anchored in both blocks. The instrument body includes universal joints, on which sensing element is mounted, accommodating a small degree of shear movement that might occur.

The RST vibrating wire jointmeter is a very robust and accurate instrument with excellent long term stability. It can be measured by RST vibrating wire portable readout units or a data logger if remote continuous monitoring of the joints is required. All measurements are compared to an initial datum reading, providing a history of magnitude and rate of movement at the joint.

In addition to vibrating wire jointmeters, RST offers vibrating wire and electrical crack meters that can be used for monitoring joints of both new and existing concrete dams and structures. Access to the joint or crack to be monitored is required.

specifications

ITEM	DESCRIPTION
Ranges	15, 25, 50 mm (other ranges available)
Overrange	1.25 X range
Resolution	0.02% F.S.
Accuracy	0.2% F.S. (0.1% F.S. optional)
Operating temp.	-20 to +80°C
Cable	Two twisted pairs cable with polyurethane jacket
Diameter	51 mm
Lengths	15 and 25 mm range: 340 mm 50 mm range: 430 mm

ordering info

ITEM	PART #
15 mm	VWJM015
25 mm	VWJM025
50 mm	VWJM050
Signal cable	EL380004



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applications

Monitoring of joints of concrete arch, gravity and buttress dams; concrete-faced, rockfill dams; concrete retaining walls and slabs.

features

Long term stability in difficult environments.

Suitable for datalogging and remote monitoring.

Integral lightning protection.

High accuracy and resolution.

Accommodates shear movement.

Not affected by cable length.

