

# VW Jointmeter



## 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

The Geosense® 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 vibrating wire jointmeter is a robust and accurate instrument with excellent long-term stability. It can be measured by 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.





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## Specifications

ITEM	DESCRIPTION
Ranges	15, 25, 50 mm (other ranges available)
Overrange	1.25 X range
Resolution	0.025% 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	51mm
Lengths	15 and 25mm range: 340mm; 50 mm range: 430mm



Specifications may change without prior notice