

# VIBRATING WIRE JOINTMETERS

Models JM-S and JM-E

## APPLICATIONS

The JM jointmeters (also crackmeters or fissurometers) are used to measure displacement at joints and cracks in structures and rock masses. Typical applications include:

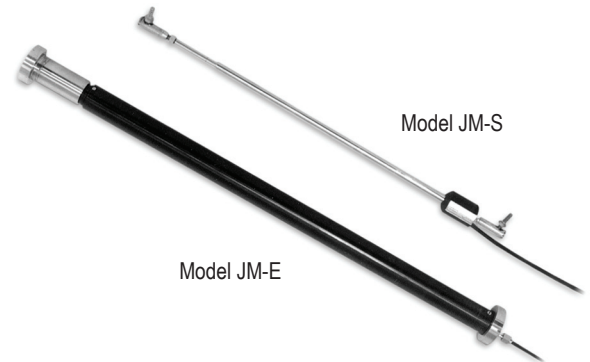
- Monitoring displacement between concrete lifts in concrete dams
- Measuring fault movements in rock
- Determining crack and joint movement in concrete and masonry structures
- Monitoring separation of shotcrete from the rock face of tunnel walls

## DESCRIPTION

The JM jointmeters consist of a vibrating wire displacement transducer inside a telescoping stainless steel housing. Jointmeters are mounted onto or embedded in a structure, such that its active gauge length spans the crack or joint to be monitored.

The JM-S surface jointmeter is attached to the surface of the structure using groutable or bolt-on anchors. It is attached to the anchors with ball joints at the ends of the sensor, which compensate for any anchor misalignment.

The JM-E embedment jointmeter is embedded in concrete structures such that its active gauge length spans the construction joint to be monitored.



## FEATURES

- High accuracy and resolution
- Long-term stability and reliability
- Stainless steel transducer
- Removable and reusable jointmeter
- Easy installation and reading
- Rugged design
- Accommodates shear displacements
- Frequency signal easy to process and transmit over long distances

## SPECIFICATIONS

MODEL	JM-S, JM-E
Range	25, 50, 100, 150, 200, 250, 300 mm
Overrange	1.25 × range
Accuracy	±0.25% F.S. (±0.1% optional)
Resolution	0.02% F.S. (min.)
Operating temperature	-20 to +80°C
Thermistor	3kΩ (see model TH-T)
Cable	IRC-41A, IRC-41AP

## DIMENSIONS

Diameter	9.5 mm (JM-S), 47.6 mm (JM-E)						
Length (closed)							
Model\Range	25 mm	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm
JM-S	181 mm	229 mm	349 mm	474 mm	601 mm	713 mm	830 mm
JM-E	383 mm	432 mm	602 mm	772 mm	—	—	—

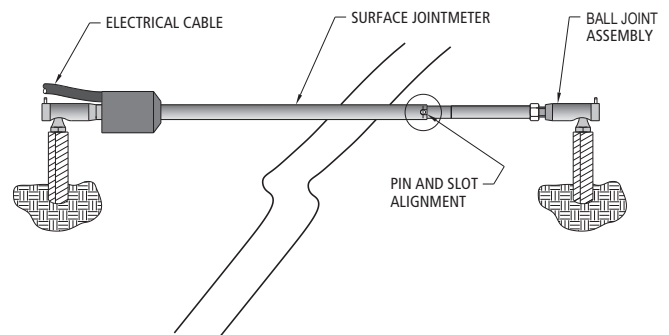
## ACCESSORIES

- Extension rods for surface jointmeter
- Readout instruments: MB-6T(L), SENSLOG

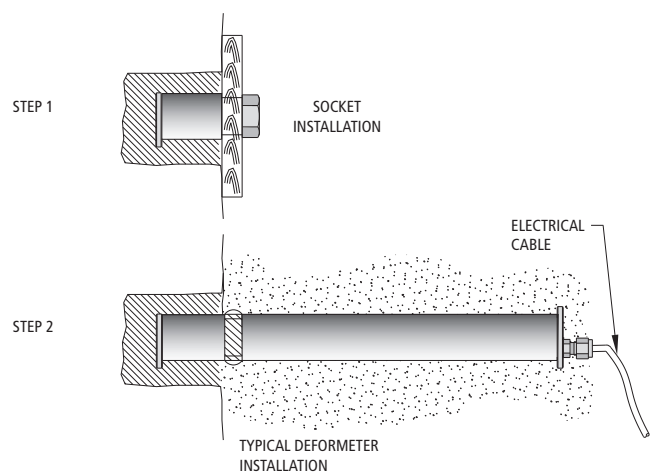
## ORDERING INFORMATION

Please specify:

- Model
- Cable length
- Extension rod lengths
- Mounting accessories: universal joints, rebar anchor attachments for mounting on rock, or other special mounting accessories
- Accessories



Model JM-S



Model JM-E