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## VIBRATING WIRE JOINTMETERS

Models JM-S and JM-E

Model JM-S



Model 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

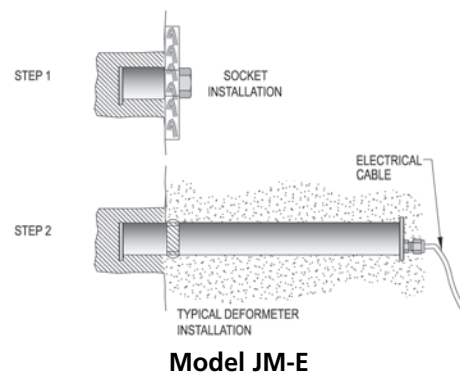
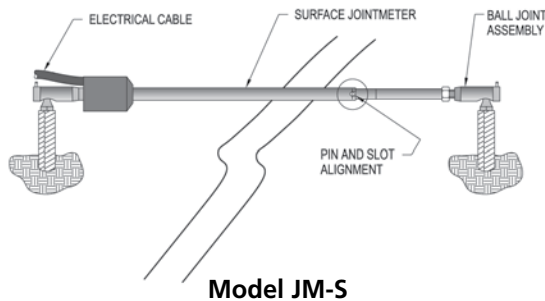
- High accuracy and resolution
- Long-term stability and reliability
- Stainless steel transducer
- Removable and reusable jointmeter
- Easy installation and reading
- Rugged design
- Accommodates shear displacements
- Frequency signal easy to process and transmit over long distances

## SPECIFICATIONS

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

## DIMENSIONS

<b>Diameter</b>	9.5 mm (JM-S), 47.6 mm (JM-E)							
<b>Length (closed)</b>	<b>Model\Range</b>	<b>25 mm</b>	<b>50 mm</b>	<b>100 mm</b>	<b>150 mm</b>	<b>200 mm</b>	<b>250 mm</b>	<b>300 mm</b>
	<b>JM-S</b>	181 mm	229 mm	349 mm	474 mm	601 mm	713 mm	830 mm
	<b>JM-E</b>	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