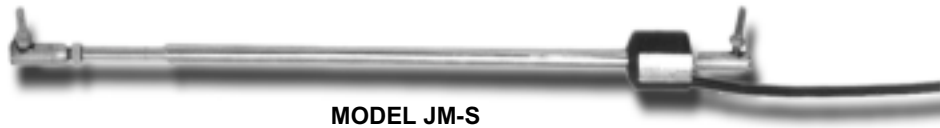


VIBRATING WIRE JOINTMETERS

JM series



MODEL JM-S



MODEL JM-E

APPLICATIONS

The JM series of 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
- Measuring construction joint movement at the contact with foundation rock

DESCRIPTION

The JM series of 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 gage 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. The surface jointmeter is attached to the anchors with ball joints at the ends of the sensor, which compensate for any misalignment of the anchors.

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

The JM-F foundation deformer is installed in boreholes beneath foundations. The foundation deformer has extension tubes threaded on its end and is grouted into the borehole below the foundation to be monitored.

FEATURES

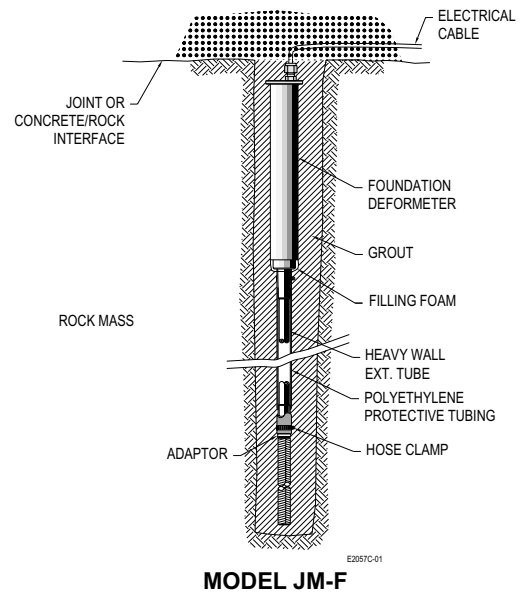
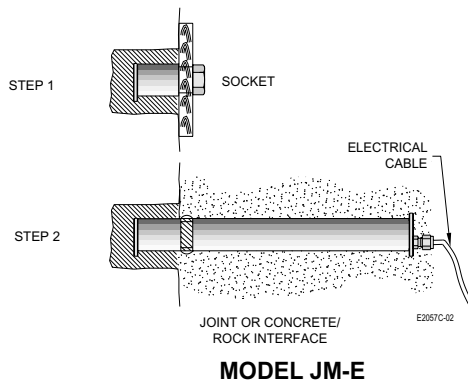
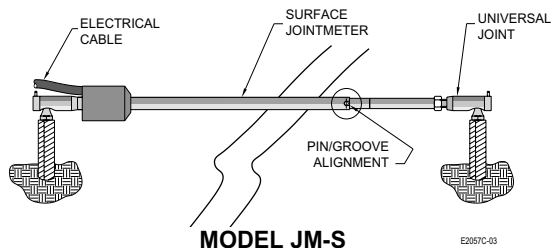
- HIGH ACCURACY AND RESOLUTION
- LONG-TERM STABILITY AND RELIABILITY
- STAINLESS STEEL TRANSDUCER
- REMOVABLE AND REUSABLE JOINTMETER
- EASY TO INSTALL AND READ
- RUGGED DESIGN
- ACCOMMODATES SHEAR DISPLACEMENTS
- FREQUENCY SIGNAL EASY TO PROCESS AND TRANSMIT OVER LONG DISTANCES

SPECIFICATIONS

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

DIMENSIONS

Diameter	9.5 mm (JM-S), 47.6 mm (JM-E, JM-F)							
Length (JM 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	-	-	-
	JM-F	378 mm	426 mm	597 mm	773 mm	-	-	-



ACCESSORIES

- Extension rods for surface jointmeter
- Extension tubes & polyethylene sheaths for foundation deformer
- Readout instruments: MB-6T(L), SENSLOG

ORDERING INFORMATION

Please specify:

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

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