



Vibrating Wire Jointmeter Model 3070-RT-JM Series

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**

APPLICATIONS

The JM can be used in a wide variety of applications including measuring:

- Lifts in a dam
- Fault movements in rock
- Strata deformation in boreholes
- Crack separation in concrete or stone structures
- Separation of shotcrete from the rock face of tunnel walls
- Construction joint at contact with the foundation rock.



Description

The Roctest Model 3070-RT-JM Jointmeter is a surface or embedment extensometer. It can be configured as a foundation deformer. It is designed for measurement on-site of displacements up to 150 mm.

Installation is accomplished by anchoring the gauge so that the meter spans the section or separation of interest.

The jointmeter is installed by grouting or bolting two threaded anchors (with ball joints) across the joint and then attaching the ends of the gauge to the anchors.

The foundation deformer has extension tubes threaded on its end and is grouted into a borehole below the foundation to be monitored.

The JM jointmeter/deformer transducer is made of stainless steel and the gauge interior is protected from moisture and dirt by o-ring seals.

The housing of both the embedded and foundation deformer is made of PVC with stainless steel flanges. A thermistor, incorporated in the transducer, supplies simultaneous temperature data.

The displacement transducer JM-T is similar to the surface jointmeter JM-S with the exception of the end pieces. It is used mainly as an extensometer transducer.

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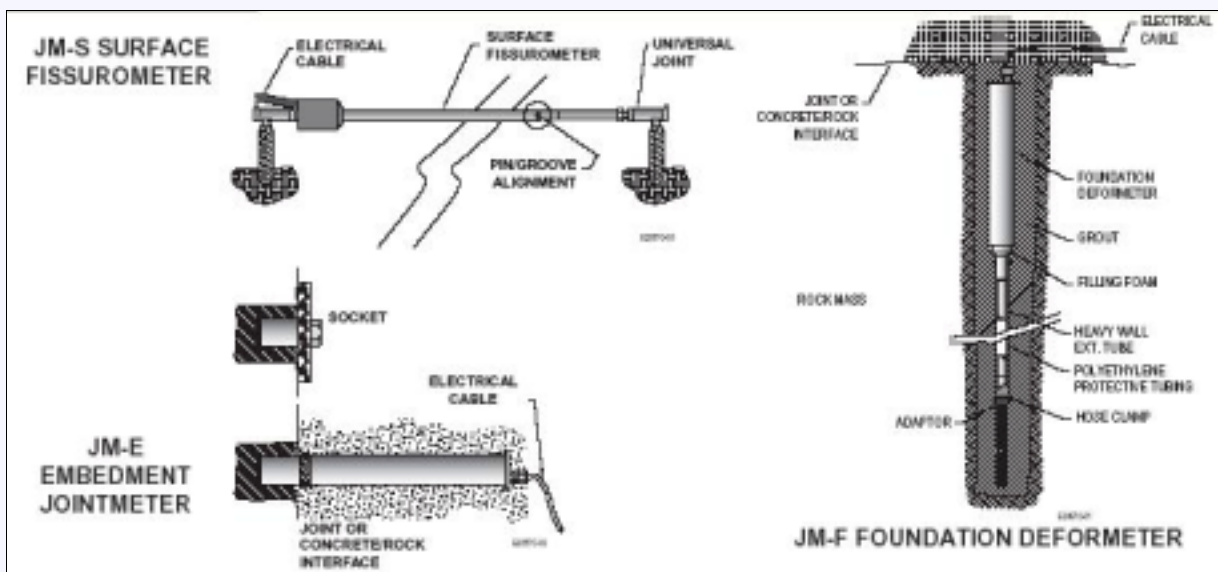
Accessories

- Portable readout unit (MB-6T, MB-6TL or PFC-10)
- SENS-LOG data acquisition system
- Extension rods for surface jointmeter
- Extension tubes & polyethylene sheaths for foundation deformer
- Lightning protection

Ordering Information

Please specify:

- Model JM-E, JM-S, JM-F or JM-T
- Cable length
- Extension rod lengths
- Extension tube lengths
- Mounting accessories: universal joints, rebar anchor attachments for mounting on rock or other special mounting accessories.



Specifications

	JM-E / JM-S Embedment Jointmeter / Surface Jointmeter				JM-F / JM-T Foundation Deformer / Displacement			
Range* mm (in)	25 (1)	50 (2)	100 (4)	150 (6)	25 (1)	50 (2)	100 (4)	150 (6)
Length mm	362	419	546	673	236	292	419	546
Diameter mm	9.6							
Overrange	1.25 ´ range							
Resolution	0.02% range							
Accuracy	0.1% range							
Operating temperature	20 to +150°F (-27 to +65°C)							
Cable	4 – conductor shielded IRC-41A							

* Other ranges available on request

Due to on-going design improvements and reviews, we reserve the right to amend product and specifications without prior notice



FOR FURTHER INFORMATION

environmental systems & services | 8 River Street, Richmond VIC 3121 Australia
T + 61 3 8420 8999 | F + 61 3 8420 8900 | geotechnical@esands.com | www.geosystems.com.au