



MODEL SME-2250/2251

TRI-AXIAL JOINT METER

FEATURE

- * Rugged design
- * Accurate & reliable
- * Mechanical or remote version
- * Long term stability

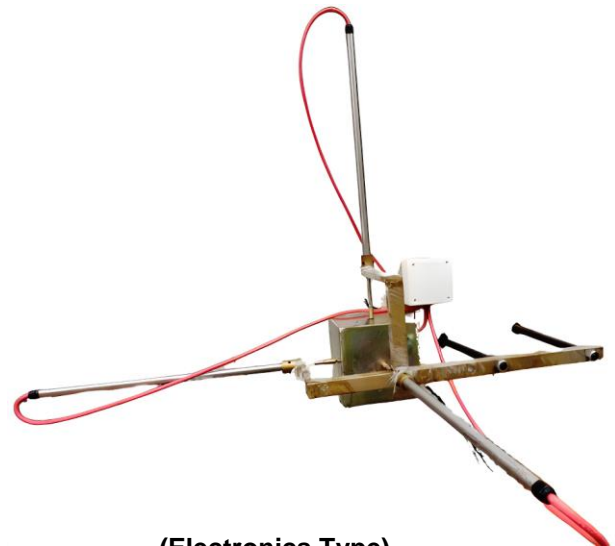
APPLICATION

Three directional joint meter are generally used for measurement of surface movement in all the three direction in following applications:

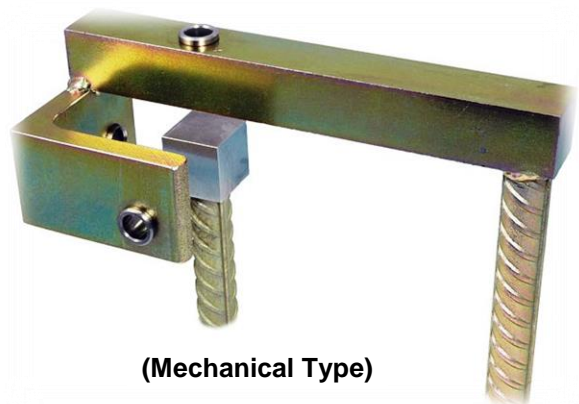
- * Surface cracks movement on dam body.
- * Surface cracks on tunnels
- * Movement measurement of cracks behind slops.
- * Measurement of cracks in pavements or tunnel linings.
- * Movement measurement of joints or faults in rocks.

DESCIPTION

Tri-axial Joint meters Model SME 2250 electrical type and SME 2251 mechanical type are generally available in 0 -25 mm or 0 -50 mm ranges. These are very rugged in design and the system basically comprises of two base plates placed one on either side of joint or crack. One reference block is mounted on one block and a measurement head on the other base plate. Measurement head can accommodate three sensors one each for each axis measurement. For mechanical measurement the same can accommodate dial gage for measurement. Vibrating wire sensor is basically comprises of element with spring loaded gage wire which when pulled to a definite distance increase tension on gage wire which in turn changes its length vice versa changes wire's natural frequency. Sensing wire is made to vibrate by a pulse magnet through vibrating wire readout Model SME 2460-P. The readout reads and indicates data in frequency or time period or direct in engineering units i.e. in millimeters. From protection point of view a heavy steel cover may be provided over the complete assembly.



(Electronics Type)



(Mechanical Type)

ADVANTAGE

Vibrating wire technology offers advantage of measurement of an output signal in terms of frequency virtually unaffected by stray current, resistance of junction terminals or by the impedance of electrical cable. The basic advantage being the reliable data as long as one kilometer cable length without any appreciable deviation.

SPECIFICATION

Model	:	SME 2250	SME 2251
Range	:	0 - 25 mm or 0 - 50mm. (Other optional)	0-25mm or 0-50mm
Measurement system	:	Displacement sensor	Dial gage
Resolution	:	1% of range	0.01mm
Accuracy	:	Better than 1% of full scale.	0.1mm
Temperature Range	:	-20 °C to 50 °C.	-
Sensor length	:	235 mm (-25mm -0- 25mm)	Std. Dial gage

ORDERING INFORMATION

- * Model Number.
- * Range
- * Cable Length.

ACCESSORIES

- * Three position switch box
- * Readout Model SME 2460-P
- * Protection cover



Depth gauge



Due to continuous development program the specification and dimensions are subject to change without notice. Our engineers do undertake the work for development as per the customer's requirement.

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