



VIBRATING WIRE JOINT METER

FEATURES

- * Rugged Design
- * Hermetically Sealed
- * Accurate & Reliable
- * Suitable for Long Cable Length.



APPLICATION

Vibrating wire joint meter Model SME 2120 are useful for following applications:-

- * Measurement of movement in concrete joints in dams or any concrete structures.
- * Measurement of tension cracks behind slopes.
- * Measurement of cracks in pavements or tunnel linings.
- * Measurement of joints or faults in rocks.

DESCRIPTION

Joint meters are generally available in 0-25mm or 0-50mm ranges. These are very rugged in design and suitable for both surface mounting and embedment. For surface mounting two brackets are extra required where as for embedment type isolation socket, Isolation boot and clamp assembly. Vibrating wire joint meter is basically comprises of element with spring loaded wire which when pulled to a definite distance increase tension on wire which changes its length and in turns wire's natural frequency. Sensing wire is made to vibrate by a pulse magnet through vibrating wire readout Model SME 2460-S. The readout unit reads and indicates data in frequency or time period or micro strain or direct in engineering units i.e. in millimeters.

ADVANTAGE

Vibrating wire technology offers advantage of measurement of an output signal in terms of frequency virtually ineffective of 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 deviation.

SPECIFICATION

Model	: SME-2120
Range	: 0-25 mm or 0-50 mm (other optional)
Accuracy	: Better than 1% (std) and 0.5% or 0.25% on demand
Temperature Range	: 20°C to 50°C
Temperature effect	: $\pm 0.05\%/^{\circ}\text{C}$ F S
Insulation resistance	: Better than 1000M Ohms at 24V DC
Electrical connection	: 2 core shielded cable.

ORDERING INFORMATION

Model number
Cable length
Accessory required

ACCESSORIES

Mounting bracket
Boot & clamp
Readout unit SME 2460-S

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.

Sensors & Measurements Enterprises

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