



MODEL SME-2025

EPOXY BONDABLE / SPOT WELDABLE STRAIN METER

FEATURES

- * Epoxy Bondable.
- * Small in size.
- * Water Proof.
- * Detachable magnet coil.
- * Spot weldable.
- * Stainless steel material.
- * Long term stability.



APPLICATION

The Model SME 2025

Vibrating wire strain meter is designed to measure strain in following applications:

Direct mounting on steel structure such as on Bridges, Piles, and Tunnel linings, etc. with the help of fast setting epoxy or spot welding.

Direct on the surface of concrete structure with epoxy bonding.

DESCRIPTION

Model SME 2025 strain meter is constructed from stainless steel tube housing and wire. The wire is centrally located in this tube and clamped with swaging technique on the side supports. The wire is pre-tensioned through a small spring. The side supports holds the tube freely on o-rings to provide a water proof assembly. Separate detachable plucking coil housing is used to monitor the data as and when required. The detachable coil has provision to fix it permanently on the gage assembly if required. A vibrating wire readout unit Model SME 2460-S is required to measure data direct in strain unit. The sensor can be easily fixed with epoxy or sometimes welded to steel structure to measure strain. To measure strain in concrete it is bonded with epoxy only.

ADVANTAGE

Installation is quick and simple as surface preparation is minimal. The sensor is very small in size and can be installed very close to measurement surface. The wire is positively gripped in the side supports by special swaging technique. Makes its installation possible by epoxy bonding. The vibrating wire principal provides the sensor long term stability and accuracy. Frequency signals can be transmitted to thousands of meters on electric cables without loss of accuracy.

Frequency signal is unaffected by resistance change due to temperature variation or by moisture.

As the tube is floating and the stretching of tube is not required during measurement which makes its installation possible by epoxy bonding.

SPECIFICATIONS

* Range	:	2500 μ s
* Sensitivity	:	1.0 μ s
* Thermistor	:	Provided
* Dimensions LxWxH	:	85x25x20 mm
* Temperature range	:	0-60°C.



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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