



ENCARDIO RITE

SISTER BAR STRAIN METER

MODEL EDS-12V

OVERVIEW

Encardio-rite model EDS-12V vibrating wire sister bar strain meter is specially designed for embedment in concrete structures. It is ideal for measurement of strain in concrete structures such as piles, diaphragm/slurry walls, bridge abutments, tunnel lining, dams, foundations, etc.

GENERAL DESCRIPTION

The model EDS-12 V vibrating wire sister bar strain meter consists of a hollow bar with vw strain gage mounted co-axially inside. The hollow bar is extended on the the two sides with 12.7 or 16 mm ϕ reinforced bars.

The gage is supplied ready for embedment in concrete by tying it alongside an existing length of rebar in the rebar cage. The strain transfer from the surrounding concrete to rebar strain meter is uniform and equal. Sister bars can also be installed in pairs on both the sides of neutral axis to separate bending moments from axial load.

An in-built thermistor is provided for temperature measurement for accurate determination of effective strain.



Specifications subject to change without prior notice.

FEATURES

- ◆ Precision, low cost reliable sensor for long-term installation.
- ◆ Easy to install and water proof.
- ◆ Reliable and precise measurement possible.
- ◆ Fully encapsulated for protection against handling and installation damage.
- ◆ Rugged construction.

APPLICATIONS

- ◆ Suitable for measurement of strain in reinforced concrete structures.
- ◆ Strain measurement in concrete piles and cast in place concrete piles.
- ◆ Strain measurement in diaphragm/slurry walls.
- ◆ Strain measurement in tunnel linings, dams and bridge abutments.

SPECIFICATIONS

Type	VW type
Range	2500 μ strain
Sensitivity	1 μ strain
Dimension (ϕ x l)	26 x 1400 mm
Temperature limit	
Normal	-10 to +55°C
Protection	VW strain gage is encapsulated inside hollow bar
Thermistor	YSI 44005 or equivalent



ENCARDIO-RITE ELECTRONICS PVT. LTD.

A-7 Industrial Estate, Talkatora Road, Lucknow, UP 226011, India

Tel +91 (522) 2661044, 2661040 Fax +91 (522) 2661043 E-mail geotech@encardio.com

Visit us at: www.encardio.com

DATA SHEET 1192-07R0