

ENCARDIO RITE



SISTER BAR STRAIN METER

Model EDS-12V/EDS-12V-EX

OVERVIEW

Encardio-rite models EDS-12V/EDS-12V-EX vibrating wire sister bar strain meters are specially designed for embedment in concrete structures. These are 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-12V 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 two sides with 12 or 16 mm ϕ reinforced bars. Model EDS-12V-EX has the sensor welded onto it, with proper protection for special applications.



Model EDS-12V-EX

Both models are supplied ready for embedment in concrete by tying the sister bars alongside an existing length of rebar in the rebar cage. The strain transfer from the surrounding concrete to sister bar 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.

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 .Provides reliable and high resolution readings.



Model EDS-12V

SPECIFICATIONS

Range	2500 μ strain
Sensitivity	1 μ strain
Dimension $\phi \times l$ (mm)	26 x1400 (for 12.0 ϕ) 30 x1400 (for 16.0 ϕ)
Temperature limit normal	-10 to +55°C
Protection	VW strain gage encapsulated inside hollow bar
Thermistor	YSI 44005 or equivalent

* All specifications are subject to change without prior notice.

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