



ST350

Strain Transducer



Overview

The ST350 is a strain transducer used to evaluate live-load stresses on structures such as bridges, buildings, cranes, and amusement park

rides. It is prewired to connect directly with our dataloggers, and is ideal for structural monitoring data acquisition systems.

Benefits and Features

- Improved signal-to-noise ratio for higher-resolution measurements
- Rugged enough for harsh environments
- Pay for themselves with just a few uses
- Compatible with most Campbell Scientific dataloggers
- Quick installation with minimal preparation
- Efficient, reliable, and highly accurate

Mounting

The ST350 is affixed to steel, pre-stressed concrete, or wood via two threaded mounting tabs and a tab jig. Alternatively, two c-clamps may be used to mount the sensor to steel. Attachment to reinforced

concrete typically requires two threaded mounting tabs, a transducer extension, and an extension jig.

Ordering Information

Strain Transducer

ST350 Bridge Diagnostics 350 ohm Strain Transducer, 15 foot Heavy Duty Cable

Accessories

21278 Threaded Mounting Tab (requires 2)
21279 Tab Jig
21280 Transducer Extension (extension jig required)
21281 Extension Jig
21282 C-Clamps (requires 2)

Specifications

- Accuracy: $\pm 2\%$, individually calibrated to NIST standards
- Force required for 1000 $\mu\epsilon$: ~ 76 N (17 lb)
- Strain Range: ± 2000 $\mu\epsilon$
- Sensitivity: ~ 500 $\mu\epsilon/\text{mV/V}$
- Circuit: Full wheatstone bridge with 4 active 350 Ω foil gages, 4-wire hookup
- Cable: BDI RC-187: 22 gage, two individually-shielded pairs with drain; 15-ft length standard
- Material: Aluminum
- Dimensions: 11.1 x 3.2 x 1.3 cm (4.375 x 1.25 x 0.5 in)
- Weight: 85 g (3 oz)



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 June 25, 2013

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