

A Universal Modular Strain Sensor For Steel And Concrete

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MARKKLEEBERG, Germany -- Acousto elastic concrete strain sensors are used to detect the metrological Elongation or compression of steel building components as well as for measurements in reinforced and unreinforced concrete bodies used. The thickness of the sensor (diameter of the bolts) may be selected according to the strength reinforcement.

The acousto elastic concrete strain sensors can also be mounted on the outside parts of the structure of steel. With flanges or angle mounting is easily done. Particularly advantageous is the variable length of the sensors. The reduction of the sensors can be done on site. The terminal points of the sensors are freely selectable within the sensor length.

By default, the terminal distances between 1 inch and 10 foot are to be selected. Longer sensors are available on request.

Acousto elastic concrete strain sensors are not subject to aging.

Due to the measurement principle of the transit time measurement in a steel rod, long-term drift and change the calibration data do not matter.

The universal sensors of IBJ Technology (www.ibj-technology.com) allow quick and accurate measurement of forces and tensions in and around buildings of all kinds For this rugged transducers are the stress sensor for concrete, which are stronger than any concrete itself. Compressive stresses and tensile stresses can be measured in the longitudinal direction of the extensometers acousto elastic concrete.

The absolute resolution of the sensors is regardless of its length and better than 0.00001 inch.

In particular, the total insensitivity to moisture and other atmospheric influences, recommend these sensors for use in the construction industry in all climatic conditions.

Temperature-induced changes in length are detected by a built-in temperature sensor.

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