

Universal Stress and Strain Measurement

Source: IBJ Technology

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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 acoustoelastic 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 feet 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 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 it self.

Compressive stresses and tensile stresses can be measured in the longitudinal direction of the extensometers acousto elastic concrete.

In particular, the total in sensitivity to moisture and other atmospheric influences, recommend the 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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