

ZETLAB

DIGITAL DEVICES OF ZETSENSOR SERIES



A wide range of ZETSENSOR digital sensors enables measurements performance and controlled object parameters evaluation (deformation, strain, tilt angle, low-frequency oscillations, absolute and over-pressure, ambient environment and tested object temperature control).



STRAIN GAUGE MEASUREMENTS

Evaluation of stress-strain state of parts, systems, and structures. Static and dynamic strain gauge measurements



THERMOMETRY

Temperature measurements, controlled objects heating data acquisition by contact method (using thermocouples and resistance thermometers)



PRESSURE MEASUREMENTS

Gases, liquids, viscous and granular media absolute and over-pressure measurements (measurements in aggressive media are also possible)



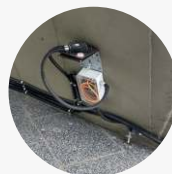
HYDRODYNAMICS AND CAVITATION

Cavitation control, hydrodynamic noise and ultra-sonic sound level measurements in liquid and gaseous environments



SEISMIC SURVEYS

Low-frequency oscillations recording: natural oscillation frequency, logarithmic damping ratio, seismic impact level



DISPLACEMENT AND TILT MEASUREMENTS

Tilt angle and relative displacement of structural elements within structural health monitoring system (SHM) Distance and rotation angle control



NON-DESTRUCTIVE CONTROL

Detection, spotting and control of acoustic emission sources



OUTPUT SIGNAL CONVERSION

Establishing sensors measurement system with 4-20 mA or 0-10 V interfaces

