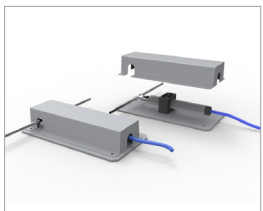


## DAMS AND EMBANKMENTS



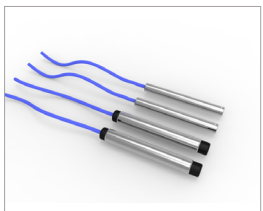
### TELECOORDINOMETER

it is an optical device designed for automatic measurement of the coordinates of the pendulum plumb lines. All TEL-310S units are IP68 waterproof until 50 kPa.



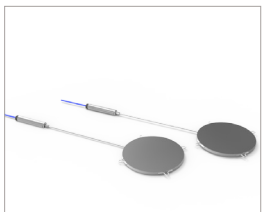
### FLUID SETTLEMENT GAUGES

they are utilized to measure differential settlements into earth fill dams. DSM embankment gauges are usually embedded in the filling material during dam construction.



### VIBRATING WIRE PIEZOMETERS

their construction technology makes them particularly suitable for long-term monitoring. They are commonly employed to control pore water pressure.



### EARTH PRESSURE CELLS

aimed to monitor the total pressure in earth fill dams, embankments or at the interface between a retaining wall and soil. Available with VW or electrical transducer.



### DATA ACQUISITION SYSTEM

OMNIAlog is designed for field use, available for both analogue and digital instruments. It has an on-board WEB server suited for alarm notification and remote data transmission.

## ABOUT US

SISGEO was founded in 1993 inheriting the abilities of SIS Geotecnica, the leading company in Italy in geotechnical engineering. Over the years, SISGEO has distinguished itself internationally thanks to a tight and highly motivated working group, that devoted itself with passion and creativity to design and manufacture high quality instruments to meet the broader needs in the field of civil engineering.

“Made in Italy” is the heart of our business and at the same time a legacy of history, creativity, style and passion we are proud to bring to the world with our products and services, through a network of international engineers with proven skills.

“Tracciamo soluzioni” (Delivering solutions) is how we introduce ourselves because it is what we do, giving prominence to people. Acquiring skills and taking note of the ideas of those who work with us, enable ourselves to satisfy our clients’ needs. This is the horizon towards which we trace our route.

In 1997 SISGEO obtained the ISO 9001 Certification and since then, the constant and continuous application of our Quality System, widespread at all levels of the company, is a source of improvement, evolution and growth.

LEAFLET\_ENG-REV. 07 10/2014



— DELIVERING  
SOLUTIONS



### SISGEO s.r.l.

Via F. Serpero 4/F1 - 20060 Masate (MI), Italy  
Tel. +39 02 95764130 - Fax +39 02 95762011  
info@sisgeo.com - www.sisgeo.com



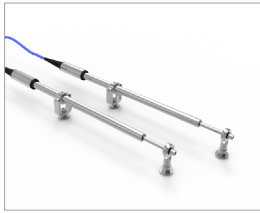
GEOTECHNICAL INSTRUMENTS AND  
STRUCTURAL HEALTH MONITORING

## LANDSLIDES AND UNSTABLE SLOPES



### DIGITAL INCLINOMETER SYSTEM

digitalized MEMS inclinometer is the most versatile portable device for inclination measurements within grooved casing. It provides high accuracy, shock resistance and durability.



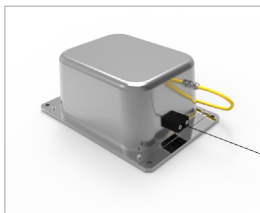
### CRACKMETERS AND JOINTMETERS

they could be installed for cracks or joints relative movement monitoring. Jointmeters are available with vibrating wire and potentiometer transducers in order to suit any application.



### IPI IN-PLACE INCLINOMETERS

Jointed together and suspended inside a vertical casing, they will follow the soil deformation. The digitalized version allow to install a continuous chain of probes.



### WIRE CRACKMETERS

they are aimed to monitor changes in the distance between two anchor points located up to 30 m apart. They consists of a stainless steel transducer box and an expansion anchor target.



### MINI OMNIALOG DATALOGGER

Mini OMNIAlog is a 4 channels datalogger designed for field use with low power consumption and able to read and store data from both analogue and digital instruments.

## TUNNELS, MINES AND UNDERGROUND WORKS



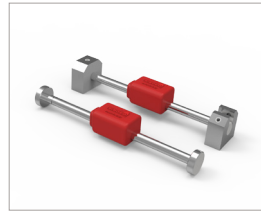
### MEXID EXTENSOMETERS

they are miniaturized borehole extensometers that allow installation into a 50 mm diameter drilling. The displacement transducers are incorporated into the instrument head.



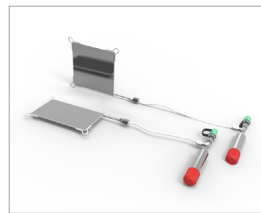
### T-REX REMOVABLE EXTENSOMETER

it is a removable extensometer which has been designed for incremental measurements along the axis of an inclinometer casing equipped with specific ring magnets.



### VIBRATING WIRE STRAIN GAUGES

they are utilized to monitor the stress in steel or concrete structures. Strain gauges are particularly durable and thermally aged to minimize long-term drift.



### NATM STRESS CELLS

They consists of a pressure pad connected to a transducer through an hydraulic line filled with de-aired oil. Stress cells are supplied with C6002 readout that display readings in MPa.



### DEX IN-PLACE EXTENSOMETERS

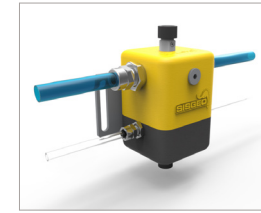
DEX are designed for automatic monitoring of settlements or heaves. DEX-S probes are able to perform a 3D borehole monitoring (settlement + horizontal displacement).

## BRIDGES AND STRUCTURES



### SURFACE TILT METERS

they are employed for tilt monitoring of bridge decks, piles and walls. Tilt meters are available in analogue and digitalized version, equipped with uniaxial or biaxial MEMS sensor.



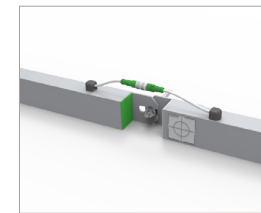
### H-LEVEL SETTLEMENT SYSTEM

Based on hydraulic principle, a chain of H-Level gauges is able to measure differential settlements of the structure where they are installed.



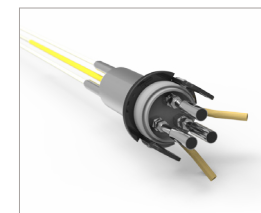
### ANCHOR LOAD CELLS

they are used to measure tensile loads in tie-back anchors or rockbolts. Available in two versions: hydraulic with manometer or electric for automatic and remote monitoring.



### DIGITAL TILT BEAMS

they are installed in continuous horizontal chain in order to monitor the differential settlements of the building where they are installed. Available in different lengths and full-scales.



### BOREHOLE ROD EXTENSOMETERS

they are installed in boreholes in order to monitor displacements at various depths, using rods of different materials and lengths. Automatic or manual reading available.