

MULTIPOINT SETTLEMENT GAUGES

Description

The settlements represent one of the most significant quantities to keep under control for the knowledge of the soil-structure interaction during the various phases of construction and operation. The most suitable system able to provide useful information during the construction of a work is represented by the multipoint settlement gauges realized with high precision and stability pressure transducers. The operating principle of the system is based on the concept that a column of liquid exerts a certain pressure according to its height. Any variation in time of the height of the liquid represents the measure of the vertical displacement that one wants to control.

The instrument consists essentially of:

- a reference point for the settlement gauges
- one or more measurement points of settlement
- a hydraulic circuit consisting of a polyethylene pipe and hydraulic fittings
- the electric cable that allows the connection of the instrument to the reading unit

Applications

- Settlement monitoring in earthfill dams and road embankment
- Vertical displacement in tunnels and
- Settlement monitoring of residential and historical buildings



Features

- Reliability for long term monitoring
- High resolution and accuracy
- Protection class IP67
- Robust construction and suitable for harsh environments

Technical specifications

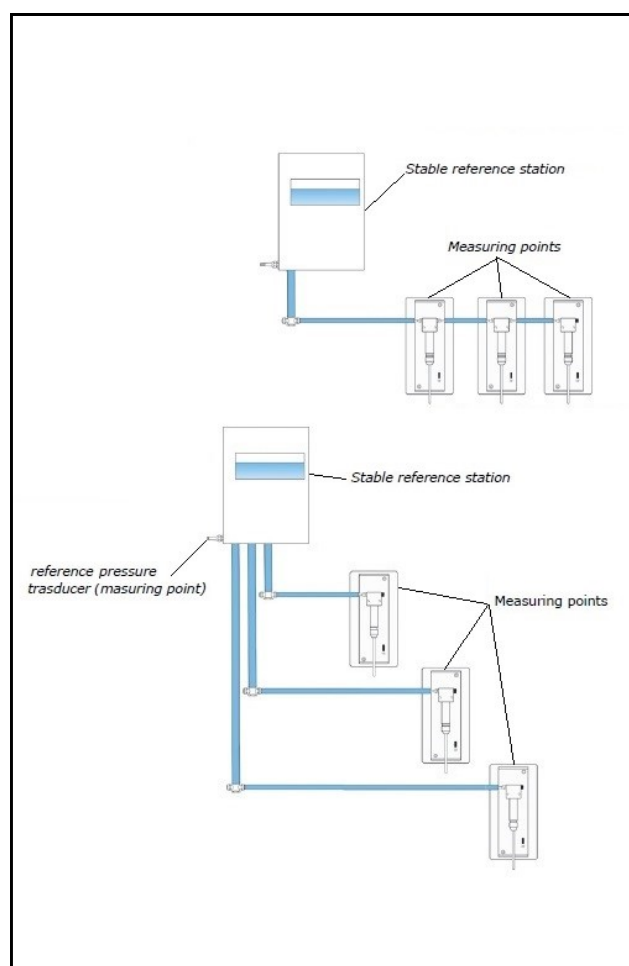
	Reference station	Measurement points
Type of sensor	piezoresistive	piezoresistive
Power supply	8...32 Vdc	8...32 Vdc
Output signal	4-20 mA	4-20 mA
Range	1 m	1 m (other range on request)
Resolution	0,01% F.S.	0,01% F.S.
Sensor accuracy	+/- 0,1% F.S.	+/- 0,1% F.S.
Temperature sensor	integrated	integrated
Operating temperature	-20.....+80 °C	-20.....+80 °C
Dimensions (L x H x W)	400x300x200 mm	200x100x60 mm
Material	plastic and aluminum	stainless steel and aluminum

Accessories and spare parts

- Hydraulic piping and fittings
- Hydraulic mixture for circuit filling
- Signal cable

Please specify

CODE	PRODUCT DESCRIPTION
ASI-100	Reference station
ASI-200	Measurement point for embankment
ASI-300	Measurement point for vertical walls
ASI-500	Hydraulic pipe and fittings with liquid
ASI-600	Multitube with electrical cable



For further information:

Gestecno s.r.l.

Loc. Lanciano, 22 - 62022 Castelraimondo (MC) - Italy
 Tel/fax: (+39) 0737.642174 - P. IVA 01137480438
 e-mail: info@gestecno.it - WEB: www.gestecno.it