

Description

The settlement meter ST130 has been designed by SIM STRUMENTI to measure vertical settlements in embankments and foundations. The instrument is produced with high quality materials in order to assure high precision and measurement reliability for long terms.

The system consists of one or more sensors connected between them by a hydraulic tube to a reference tank.

The sensors are produced in stainless steel allowing, if necessary, to be buried into the ground.

The reference tank, made in PVC material, is provided with a universal mounting bracket allowing to be mounted on any surface.

The connection between the reference tank and all elements is done by nylon tubes filled by a special measuring liquid.

The measurement is done by a piezoelectric sensor which measures the pressure of the liquid above it, translating this pressure into vertical settlement. In each particular case, sensors can be used with different ranges.

Since the output of the instrument is electrical, the signal can be read with a manual read out unit like the DATAVIEW, automatically, with a data logger such as the MINILOG, MYLOG, NATUN system or any other data logger provided by SIM STRUMENTI. Every sensor is provided with a calibration certificate that attests the results of the test performed and all electromechanical features.

Applications

Settlement measurements of embankments, foundations etc.

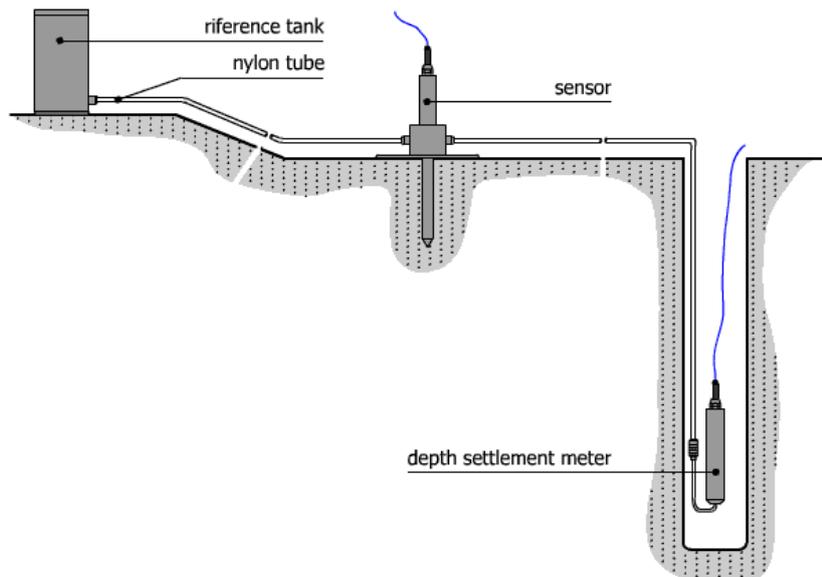
Embankments monitoring

Settlements monitoring

Reliability for long term monitoring



SIN
Strumenti e sistemi
per la geotecnica
per il controllo
di strutture e la
salvaguardia
dell'ambiente



Technical features

Surface settlement meter		ST130-AS-FS*	
Range Available	from 0.5 to 5mt with 0.5mt step		
Supply	8 ÷ 24Vcc		
Output	4 ÷ 20mA		
Linearity	0.25% FS		
Repeatability	0.01% FS		
Operating temperature	-20 ÷ +70 °C		
Protection	IP68		
Material	Sensor	Stainless Steel	
	Couplings	Stainless Steel	
	Plate	Galvanized Steel	
Dimensions	250X100X100mm		
Weight	0.800Kg		
Depth settlement meter		ST130-AP-FS*	
Range Available	from 0.5 to 30MT with 0.5mt step		
Supply	8 ÷ 24Vcc		
Output	4 ÷ 20mA		
Linearity	0.25% FS		
Repeatability	0.01% FS		
Operating temperature	20 ÷ +70 °C		
Protection	IP68		
Material	Sensor	Stainless Steel	
	Couplings	Stainless Steel	
Dimensions	Ø50X200mm		
Weight	0.350Kg		
Reference Tank		ST130-TR	
Material	PVC/ Stainless Steel		
Dimension	Ø150X200mm		
Accessories			
Hydraulic tube	ST130-TU-ID-XX**		
Corrugated tube	ST130-TU-PR-XX**		
Liquid	ST130-LI-LL***		
Material	50% glycerine 98% and 50% water		

*FS – Indicate the sensor range

**XX – Indicare the length tube

***LL - Indicare liquid quantity in LT.