

Description

The ST120 is used to monitor settlement in embankments using an optical survey. The instrument consists of an anchor (500x500x5mm galvanized or stainless steel plate), a galvanized or stainless steel tube fixed on the anchor plate, a special corrugated tube and a measuring point mounted on the top of the steel tube.

The ground settlement is measured topographically referred to the top of the tube.

The settlement plate is delivered with caps and central cylinders for easy and precision mounting of the corrugated tube.

As the height of the embankment continues to rise the settlement meter plate column can be extended using further rod.

Displacement sensor can be used without the use of optical survey.

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

Monitoring settlement in ground, embankments etc.

Optical survey

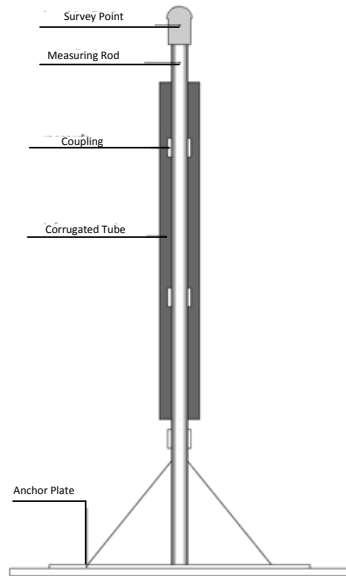
Easy installation

**Displacement sensor
(optional)**

Low cost



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



Technical features

<i>Model</i>	<i>ST120-AC</i>	<i>ST120-IN</i>
<i>Anchor</i>	<i>ST120-AN-AC-XX**</i>	<i>ST120-AN-IN-XX**</i>
Material	galvanized steel	Stainless steel
Dimension	500x500x5 mm	
<i>Measuring rod</i>	<i>ST120-AS-AC-XX*</i>	<i>ST120-AS-IN-XX*</i>
Material	galvanized steel	Stainless steel
Diameter	1"	
Length	0.5 - 1 - 2 - 3 MT	
Coupling	Threaded coupling 1"	
<i>Corrugated Tube</i>	<i>ST120-TP5-XX*</i>	
Material	HDPE threading corrugated	
Diameter	Int. Ø42mm Ext. Ø60mm	
Mt. available	50 - 100MT	
<i>Head fitting</i>	<i>ST120-RA-SU</i>	
Material	PVC	
Dimension	Ø65 X 50mm	
<i>Bottom fitting</i>	<i>ST120-RA-IF</i>	
Material	PVC	
Dimension	Ø65 X 50mm	
<i>Survey point</i>	<i>ST120-RB-ME</i>	
Material	Brass	
Dimension	Ø20 X 50mm	
<i>Accessories</i>		
Coupling 1"	<i>ST120-RA-AC</i>	<i>ST120-RA-IN</i>
Top rod	<i>ST120-TP-AC</i>	<i>ST120-TP-IN</i>
<i>Displacement sensor</i>	<i>ST120-DS-MM***</i>	
Range available	200 - 500 - 750 - 1000-1500-2000mm	
linearity / repeatability	0.02% FS / 0.01mm	
Supply	18÷30Vcc	
Output	4÷20mA	
Protection	IP67	
<i>Installation Kit for displacement sensor</i>	<i>ST120-DS-KIT</i>	

*XX – Indicate the tube length (0.5 – 1 – 2 – 3 MT)

**XX - Indicate the tube length welded on plate (0.5 – 1 – 2 – 3 MT)

***MM –Indicate the sensor range