

### General

The multipoint borehole extensometer is designed to measure soil and rock movements such as subsidence, foundation settlement, convergence measurement etc.

The extensometer measures the variation displacement between to points: the anchor placed at depth and the head placed at surface.

The extensometers DS830 are produced in several models, they can have a single or several rods (from 2 to 6 measuring bases).

The anchor, produced in a special form, allows a perfect adherence with the concrete ensuring the all system a great precision.

SIM can also provide inflatable anchors that allow a punctual cementation without inserting concrete in the entire hole.

The measuring head is produced entirely in stainless steel in order to ensure longevity to the system.

In case of a multipoint extensometer, the anchors are placed in different depths. The rods (invar, stainless steel, fiberglass), which connect the anchors to the measuring head, are inserted into a sliding protective tube.

The measuring head is prearranged to support a removable mechanical caliper or a displacement sensor (DS810-01).

The multipoint borehole extensometer DS830 can be installed at great depths with great simplicity.

### Applications

Settlement measurement in rocks and soil.  
Used in tunnels, dams, retaining walls etc.

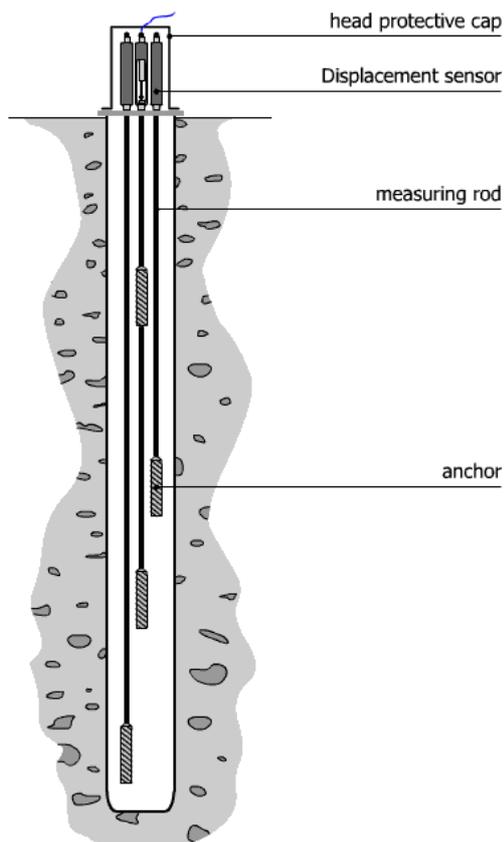
**Tunnel monitoring**

**Foundation settlement monitoring**

**Easy to install**



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## Technical features

<b>Head</b>	1 base	4 bases	6 bases
Diameter	Ø 50 mm	Ø 90 mm	Ø 115 mm
Diameter of head with rods	Ø 50 mm	Ø 98 mm	Ø 122 mm
Material	INOX		
<b>Measuring rod</b>			
Material	Invar, inox, fiberglass		
Diameter	Ø 9 mm fiberglass Ø 8 mm invar / inox		
Diam. sliding tube	Ø 16 mm		
Rod length	2 ml invar / inox fiberglass single piece		
<b>Anchor</b>			
Material	zinc-plated steel		
Diameter	20 mm		
Length	300 mm		
Dilatation coeff.	Invar	1,5x10E-6/°C	
	Inox	12x10E-6/°C	
	Fiberglass	5x10E-6/°C	

## Accessories & spare parts

DS830 - AX- ANC2	Inflatable anchor
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DS830\_EN ED01/07



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