

CLINOMETER ECS1000VBL

Application

Portable electronic instrument of high precision for measuring of inclination and changing in inclination of structures. The placing of the measuring bolts is vertical. For both measuring directions only one pair of set bolts is needed.

Description

The sensor is based on the pendulum characteristics of a mass disk, of which the movement is measured capacitively. This sensor is mounted on a carbon fibre bar of 1000 mm length which acts indifferent to temperature. The measuring points are spherical set bolts embedded in mortar. This setting device ensures a reliable reproduceability.

Accessories

The measuring place is equipped with the following types of set bolts:

- Upper set bolt EIVER, 0°/180°/90°
- Lower set bolt GEVIR, adjustable

For all set bolts protective caps in stainless steel are optionally available.

For a professional mounting of the set bolts the use of the template ECSVSL is recommended.



Technical Data

Type	ECS1000VBL
Measuring base	1000 mm
Measuring range	±20 mm/m
Resolution	0.001 mm/m
Limits of error < 0.5 FS	max. 1% of measured value
Limits of error > 0.5 FS	max. 1% of (2 x measured value – 0.5 x FS)
Temperature error/°C	max. 0.1 % FS
Display	within 3 sec
Power supply	2 x 1.5 V Alkaline type C (LR14)
Working temperature	0...+40 °C
Storage temperature	-20...+70 °C