

Sensorex®

Display inclinometer model ALPHA 4000 SX42891



Characteristics

- Autonomous unit
- Wide range
- High resolution
- Accuracy : $\pm 0.1\%$ of full scale
- Rugged housing
- RS232 output
- Conform to European Standard of Network

Applications

- Metrology
- Machine levelling and setup
- Slope control
- Building and maintenance work

The Meggitt (Sensorex) SX42891 inclinometer is a self contained angle measuring unit with integrated display. With its own internal battery (2 x 1.5V AALR6) and LCD, the angle can be directly read either in degrees, mrad, and mm/m.

The four sides can be used as a reference allowing measurements to be made on any vertical or horizontal surface. A hold button maintains the current display. The auto switch off function, powered by battery, gives autonomy of up to 150 hours. When the battery level is insufficient, this is displayed on the LCD.

Pushing “menu” button will enable the following functions:

- Temperature display
- Contrast
- Inclinometer calibration
- Auto switch-off selection

A zero-reset function allows the user to use any angle within the measurement range as zero reference. The display then shows the difference between the actual inclination and this reference.

The inclinometer SX42891 can also be connected to a PC via a RS232 bus (serial output) available on a Binder connector located on the front panel.

Meggitt Sensing Systems

Our measurement product competencies:
LVDTs | Inertial systems | Inclinometers | Accelerometers | IMU |
MEMS sensors | Servo-inclinometer | Conditioners

MEGGITT
smart engineering for
extreme environments

Sensorex®

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Specifications

Range	±70°
Power supply	2 batteries 1.5V, AA LR6 type
Resolution	±0.01°
Non linearity	±0.1% of FS
Response time	2 seconds
Cross axis sensitivity	1%
Display units	Mm/m, mrad, °/'/'', °
Zero thermal drift	0.008°/°C
Sensitivity thermal drift	0.07% of measure/°C
Operating temperature	0°C to +50°C
Storage temperature	-40°C to +80°C
Vibrations	2g / 2 hours
Protection	IP 64

Selection guide

Range	Product code
±70°	690042891

Options

5m cable	Ref. 690042897
10m cable	Ref. 690042898

Contact

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