

DISPLAY SILICIUM INCLINOMETER : SX 42891 SERIES



Excellent long term stability



SPECIFICATIONS


- Autonomous unit
- Wide range
- High resolution
- Accuracy : $\pm 0,1$ % F.S. ambient temperature
- Bus : RS232
- Robust housing
- Conform to European Standards of Electromagnetic Compatibility

GENERAL DESCRIPTION

The 42891 series inclinometer is a self contained angle measuring unit with integrated display.

With its own internal batteries (2 x 1,5V AALR6) and LCD, the angle can be directly read either in degrees, mrad, mm/m or %.

The 4 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 together with an alkaline battery gives an autonomy up to 150 hours with 2 X 1,5V AALR6 batteries. When the battery level is insufficient, this is indicated by a  reading on the LCD.

Pushing "Menu" button will select following functions :

- temperature display,
- contrast,
- inclinometer calibration,
- auto switch-off selection.

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

The 42891 inclinometer can also be connected to a PC via a RS232 bus (serial output) available on a Binder connector located on the front panel.

APPLICATIONS

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

GENERAL SPECIFICATIONS (AT 25°C)

Voltage supply	2 batteries 1,5 V (AA LR6)
Range	$\pm 70^\circ$
Resolution	0,01°
Accuracy	$\pm 0,1\%$ FSO
Cross axis sensitivity	$\leq 1\%$ of cross axis tilt
Thermal zero drift	0,008°/°C typ.
Sensitivity drift	0,07 % Mesure/°C
Output	RS232
Weight	520 g
CEM Norm	NF-EN 61326 + A1 Industrial environment

Environment characteristics

Operating temperature range	0 °C to + 50 °C
Storage temperature	- 40 °C to + 80 °C
Protection	IP 64

SELECTION GUIDE

± 70°
42891 **Sxi**

INTERFACE DRAWING

