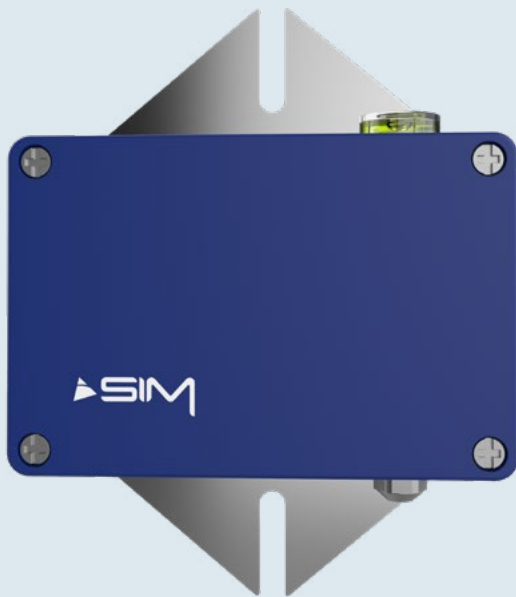


IN920

Wall fixed inclinometer (tiltmeter)



Description

With the purpose of constantly controlling structures subject to any kind of rotations, SIM STRUMENTI has developed the wall inclinometers series IN920. These sensors can measure the rotational movement of structures, and they are available with fixed bracket, uniaxial (0.5 – 10°) or biaxial (3 – 10°), having an electrolytic sensor.

The uniaxial versions are equipped with adjustment bracket for easy levelling. Mounted on a special metal bar provided by the SIM STRUMENTI, they become tilt beam sensors, able to monitor the inclination between two fixed points. Bars are available from 1, 2 or 3 meters. The mounting brackets are different for horizontal (floor) or vertical mounting (wall). The sensors can be mounted to measure the inclination along the axis of the bar or at 90° of it.

Every sensor is provided with a calibration certificate that attests the results of the test performed and all electromechanical features.

Manual read out with DATAVIEW.

Automatic read out with MINILOG, MYLOG.

Readout units with NATUN.

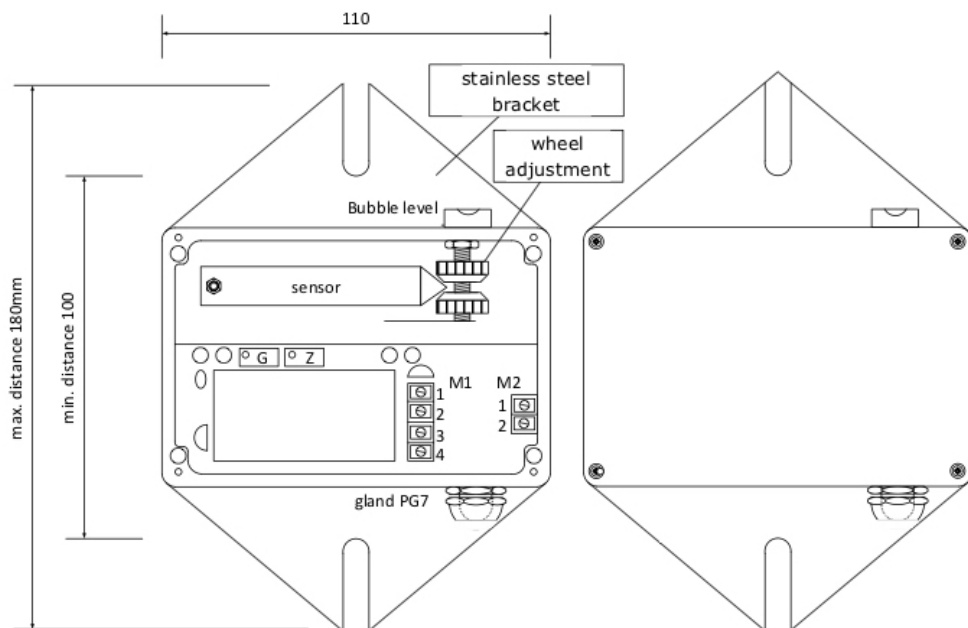
Applications

Structural monitoring of civil and industrial buildings.



IN920

Wall fixed inclinometer (tiltmeter)



Technical features			
Model	IN920-EL-V-XX-FS*		IN920-EL-A-XX-FS*
Sensor	Electrolytic		Electrolytic
Range	$\pm 0.5^\circ, \pm 1^\circ$	$\pm 3^\circ, \pm 5^\circ, \pm 10^\circ$	$\pm 0.75^\circ, \pm 1.5^\circ, \pm 3^\circ, \pm 5^\circ, \pm 7.5^\circ, \pm 10^\circ$
Supply	8-24 Vcc		12-24 Vcc
Output	Not linear $\pm 1800\text{mV}$	Linear $\pm 2\text{V}$	Linear 4-20mA
Consumption	50 mA	< 5 mA	50 mA
Linearity	0.3%FS		0.3%FS
Temperature variation	0.0008°/C		0.0008°/C
Repeatability	0.0008° from 0.5° to 3° FS 0.005° from 5° to 10° FS		0.0008° from 0.5° to 3° FS 0.005° from 5° to 10° FS
Operating temperature	$-20 \div 70^\circ\text{C}$		$-20 \div 70^\circ\text{C}$
Protection	IP65 / IP68 **		IP65 / IP68 **
Material	Body	Polyester reinforced with Fiberglass	Polyester reinforced with Fiberglass
	Bracket	Stainless steel	Stainless steel
Dimensions	180x111x60 mm (including bracket)		180x111x60 mm (including bracket)
Weight	0.875 Kg (including bracket)		0.875 Kg (including bracket)
Accessories			
Bracket kit for wall mounting		IN920-MRI1	
1mt bar		IN920-BR01	
2mt bar		IN920-BR02	
3mt bar		IN920-BR03	
Mounting kit for horizontal bar		IN920-STMU	
Mounting kit for vertical bar		IN920-STTE	

*FS Indicate the range
 *XX Indicate -MO uniaxial or -BI biaxial
 ** Specify at the order