

Leica Nivel210

Precision inclination sensor for GPS Reference Stations



The Leica Nivel210 precision inclination sensor for simultaneous measurement of inclination, direction of inclination and temperature based on an optoelectronic concept.

Precise information about inclination displacement of GPS Reference Stations installations

- Two-axis high precision sensor with a resolution of 0.001 mrad
- Highly accurate measurements and long-range stability
- Real-time data on a continuous basis
- Connectable to the Leica GPS1200 system

- when it has to be **right**

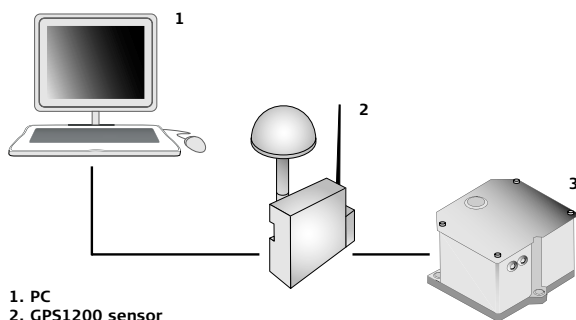
Leica
Geosystems

Leica Nivel210

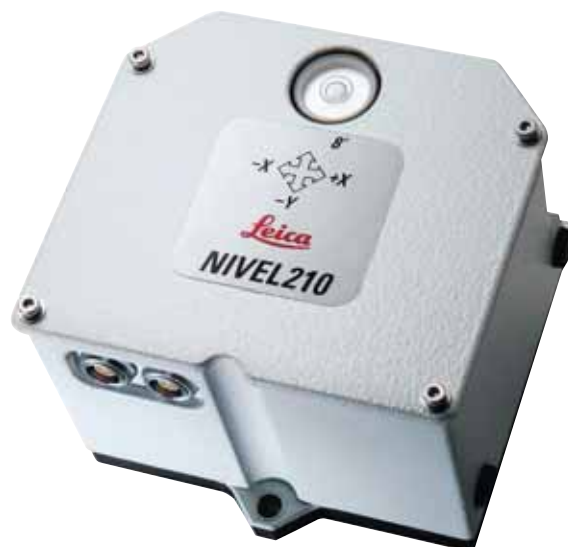
Precision inclination sensor for GPS Reference Stations

- To detect and monitor inclination displacement of a GPS Reference Station installation
- Where high precision information about the inclination and the direction of movement is needed
- The Nivel210 sensor is equipped with an RS232 interface to connect the sensor directly to the GPS1200 system
- Easily to integrate into your GPS Spider network

Integrate Nivel210 sensors into your reference station network



1. PC
2. GPS1200 sensor
3. Nivel210



Technical data Nivel210

Measuring range	Range	From [mrad]	To [mrad]	From [cc]	To [cc]
	A	-1.51	+1.51	-960	+960
	B	-2.51	+2.51	-1600	+1600
	C	-3.00	+3.00	-1900	+1900
Resolution	[mrad]	0.001		[cc]	0.6
Zero-point stability	[mrad / °C]	0.00471		[cc / °C]	< 3
Accuracy	Range	[mrad]	[cc]		
	A	+/-0.0047	+/-3		
	B	+/-0.0141	+/-9		
	C	+/-0.0471	+/-30		
Power supply voltage	Nominal voltage 12 VDC voltage range 9-15 VDC				
Power consumption	0.6 W, 50 mA				
Dimensions (LxWxH)	approx. 95 x 91 x 68 mm				
Weight	0.74 kg				
Environmental Specifications					
Working temperature	-20 to +50 °C				
Storing temperature	-40 to +70 °C				
Dust/water (IEC 60529)	IP50				
Humidity	95%, non-condensing				
Averaging function	mean value can be calculated by sensor for up to 128 measurements				
Sensor addressability	max. 32 different addresses can be stored in sensor				
Measuring cycle	300 ms				
Temperature sensor					
Measuring range	-20 to +50 °C				
Interfaces	RS232 serial port				
Baud rates	1200, 2400, 9600, 19200, 38400				



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