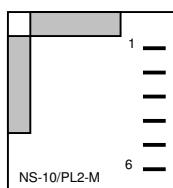
**Pin out**

Connector:

- 1 Vcc + 5 VDC, stabilized
- 2 RxD TTL
- 3 GND
- 4 N.C.
- 5 N.C.
- 6 TxD TTL

The NS-10/PL2-M is a dual axis, OEM Inclinometer utilizing two single axis, tilt sensors which work on the conductivity principle. The electronics measure the electrical stray field that is formed by applying AC voltage to planar electrode structures that are immersed in electrolytic fluid. When the sensor is tilted, the fluid level changes over the measuring electrodes; and, as a result, the conductivity with respect to the stray field changes. Using a differential measurement principle, the tilt angle and the tilt direction can be measured.

All PL type inclinometers are microprocessor controlled transducers capable of producing a linearized and temperature compensated V24-interface TTL-level.

**Applications**

- Zero point detection
- Alignment and level control
- Angle measurement
- Wheel Alignment
- Load cell compensation

**Advantages**

- Single and dual axis models
- Microprocessor controlled inclinometer
- Integrated linearisation and temperature compensation
- V24 interface, TTL-level
- Small construction kit

**Specification**

	Conditions	Min	Typ	Max	Units
Measurement range		-10		+10	°
Resolution			0,001		°
Precision (absolute)	$T_1=0 \dots +55^\circ\text{C}$	-0,15		+0,15	° of <sup>3</sup> FS, $T_1$
Precision (absolute)	$T_2=-25 \dots +85^\circ\text{C}$	-0,3		+0,3	° of <sup>3</sup> FS, $T_2$
Noise (RMS)	$RT^1$		0,03		°
Rise time	$0^\circ \rightarrow 10^\circ, t=90\%$		2,5		s
$V24\text{-interface TTL-level}^5$			4,3		V
$V24\text{-interface load}^5$			3		mA
Baud rate <sup>2</sup>			9600		Bits/s
Transmission rate		3,5	4	4,5	Hz
Supply voltage <sup>4</sup>			+5		VDC
Current consumption			20		mA
Operating temperature		-25		+85	°C
Storage temperature		-40		+85	°C
Weight			20		g
Dimensions			45 x 45 x 17		mm

<sup>1</sup>RT = by room temperature 20 °C<sup>2</sup>Baud rate = fixed<sup>3</sup>FS= Full scale<sup>4</sup>Stabilisation essential<sup>5</sup>Note the port-load of microcontroller  
Microchip Pic 14000  
RxD, TxD are not protected

Conector:  
Compony Molex  
Picoflex PF-50 1,27mm