



Microprocessor controlled single or dual channel readout with supply and signal conditioning for one or two inclinometers

- Measurement range $\pm 1^\circ$ to 90° , depending on inclinometer
- Power supply 24 VDC with external power supply
- Display of the inclination in Degree, %, mm/m or Grad:min:s



Microprocessor controlled single or dual channel readout with supply and signal conditioning for one or two inclinometers of type ALLSO with ranges from $\pm 1^\circ$ to $\pm 90^\circ$.

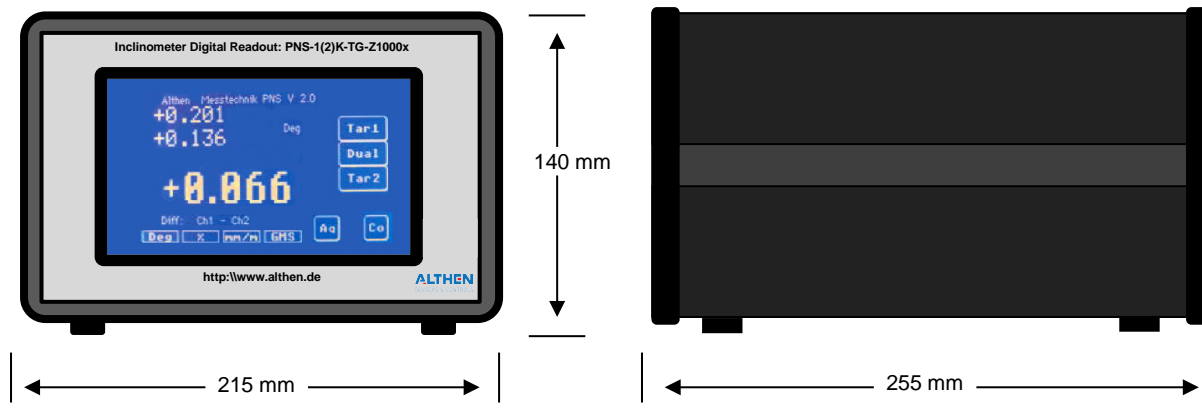
Using trigonometric functions the signal sinus-waveform is considered by internal calculation of the inclination angle.

The measurement range and menu navigation are displayed on a LCD with key functions. The system is built in a robust housing (IP20) for desktop usage.

Specifications

Number of channels:	1 or 2
Supply voltage:	24 VDC (power supply included in scope of delivery)
Power consumption:	12 W, typical
Interface:	RS232
A/D Converter:	18 bit, min.
Conversion rate:	1 ... 120 values/minute per channel
Signal display:	LCD touch screen (max. ± 19999)
Non-linearity:	± 0.01 % FS
Temperature error FS:	± 15 ppm/ $^\circ\text{C}$
Electrical connection of inclinometer:	7-pin connector (type: Binder, Series 423 plug) / rear panel
Power supply:	3-pin connector (type: Binder, Series 423 socket) / rear panel
RS232-Interface:	9-pin SUB-D plug
Enclosure:	Desktop housing (IP20)
Dimensions (W x H x D):	215 x 140 x 255mm
Weight:	3000 g
Storage temperature:	-20 ... +60 $^\circ\text{C}$
Operating temperature:	+10 ... +40 $^\circ\text{C}$

✦ Enclosure Dimensions



✦ Electrical Connections

Electrical connections are made via connectors at the rear panel.

Connector STV-01/Conn.-1 (power supply)
Type: Binder, 3-pin Series 423

Pin	Description
1	Power supply 24 VDC
2	Enclosure
3*	GND

Connector STV-02/Conn.-2 (RS232)
Type: 9-pin SUB-D, for cable 1:1

Pin	Description
1, 4, 6, 9	n.c.
2	TxD; RS232, 9600 Baud, 8N1
3	RxD; RS232, 9600 Baud, 8N1
5	GND RS232

Version ...Z1000A:
Connector STV-03/Conn.-3 (inclinometer)
Type: Binder, 7-pin Series 423

Pin	Description
1	+15V DC (inclinometer supply)
2	GND
3	+Signal inclinometer
4	-Signal inclinometer
5	GND
6	-15 VDC (inclinometer supply)
7	n.c.

Version ...Z1000B:
Connector STV-03/Conn.-3 (inclinometer)
Type: Binder, 7-pin Series 423

Pin	Description
1	+24 VDC (power supply)
2	n.c.
3	+Signal inclinometer 4...20 mA
4	n.c.
5	n.c.
6	n.c.
7	GND Power supply/ -Signal inclinometer

*Pin 2 and Pin 3 are bridged in the connector of the external power supply

✦ Alignment/Calibration

Calibration with a traceable factory calibration certificate is available on request and for extra charge.

✦ Custom Requirements

Technical modifications according to custom requirements are available on request. Moreover, we deliver customized solutions for a lot of measuring tasks in sections pressure, force, distance and tilt measuring using our measuring transducers. Do not hesitate to contact us.

✦ Ordering Information

PNS-1K-TG-...	Single channel unit for supply and signal conditioning of one inclinometer
PNS-2K-TG-...	Dual channel unit for supply and signal conditioning of two inclinometers
...-Z1000A	Inclinometer output ± 5 V
...-Z1000B	Inclinometer output 4...20 mA