



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DPG-SERIES INCLINOMETER

SPECIFICATIONS

Dual axis inclinometer

Measurement ranges $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$ and $\pm 30^\circ$

RS 232 and voltage output

FEATURES

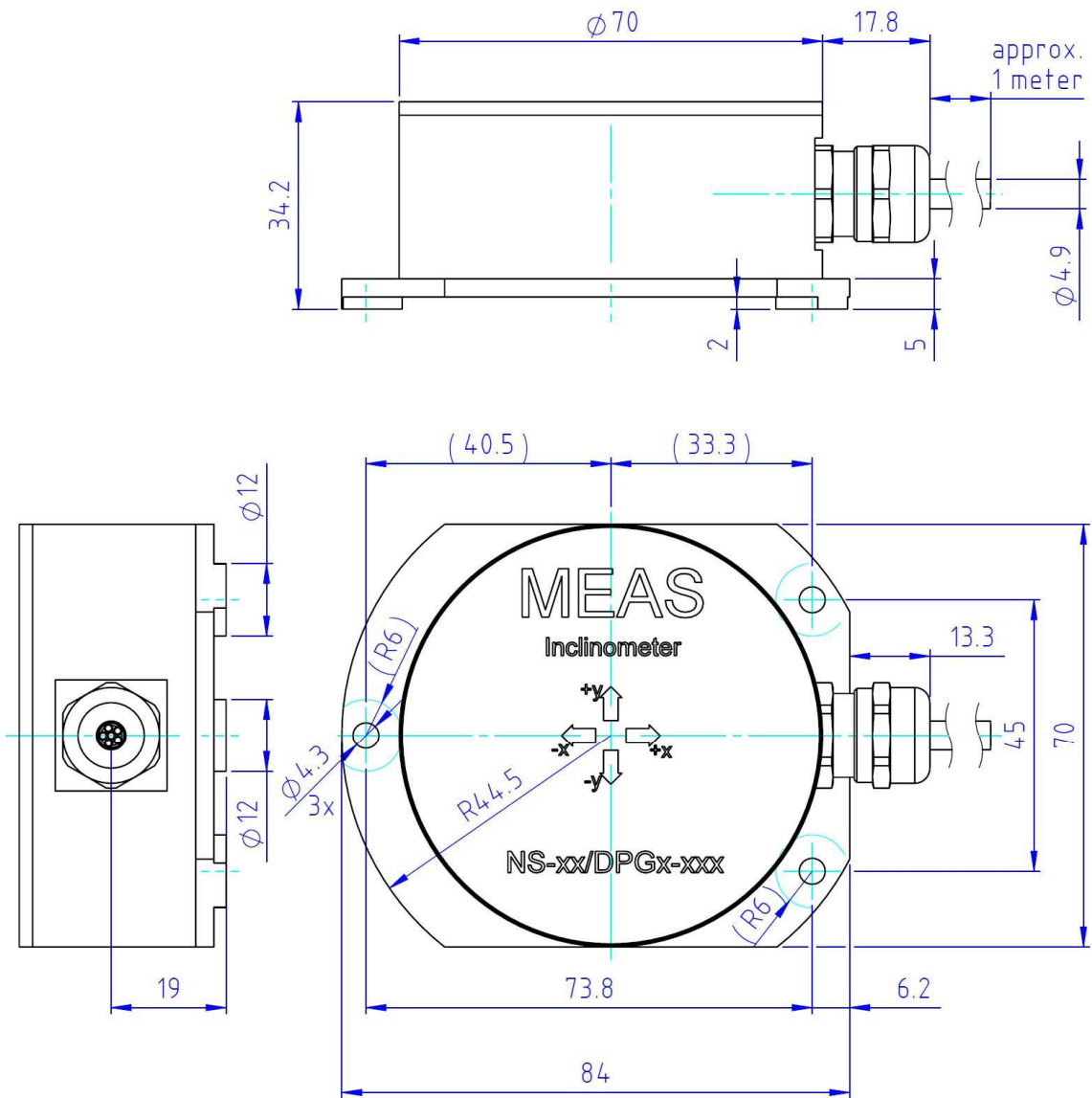
- Robust IP67/68 housing
- High accuracy
- High resolution
- Temperature compensated
- High output data transfer
- Cable integrated
- Programmable digital filtering to minimize influences from shock and vibration

APPLICATIONS

- Mobile and stationary cranes
- Lift platforms
- Building control
- Weighing systems
- Truck chassis levelling
- Vehicle applications
- Road construction machines

The **DPG-Series** dual axis conductive inclinometer in aluminum housing offers the user modern microprocessor technology with an integrated active linearization and temperature compensation. This inclinometer is full calibrated, easy to mount horizontally and absolute plug and play compatible

Dimensions [mm]



DPG-SERIES INCLINOMETER

PARAMETERS

	Conditions	Min	Type	Max	Unit
Measurement range		-5/-10/ -15/ -30		+5/ +10/ +15/ +30	°
Resolution		0.001			°
Accuracy 1 (absolute)	Ta = 0° to 50°C	0.06/ 0.09/ 0.2/ 0.5			°
Accuracy 2 (absolute)	Ta = - 40°C to 85°C	0.12/ 0. 15/ 0.25/ 0.8			°
Offset temperature drift error	Ta = - 25°C to 75°C	0.05			°
	Ta = - 40°C to 85°C	0.1			°
Noise RMS		0.003			°
Output rate, programmable	RS 232	0.5	10	25	Hz
Baud rate, programmable	RS 232		9.6		kB
Output voltage signal	analogue	0.3	0.5...4.5	4.7	V
Current consumption		20			mA
Power supply		7		30	VDC
Operation temperature range		-40		+85	°C
Storage temperature range		-40		+85	°C
Weight		270			g
Cable, pigtail	fixed	1000			mm
Dimensions	W x D x H	84 x 70 x 34.2			mm

CABLE CONFIGURATION

No	Name	Description	Type	Cable color
1	Vcc	Positive power supply	Supply, Input	white
2	RxD	RS 232 input	Input 1	grey
3	GND	Ground	Supply, Input	yellow
4	Out X	Voltage out X	Output 2	brown
5	Out Y	Voltage out Y	Output 3	green
6	TxD	RS 232 output	Output 1	pink

For more details please use the product specification / application note / instruction manual.

DPG-SERIES INCLINOMETER

ORDERING INFORMATION

PART NUMBERING	UNIT	SHORT DESCRIPTION
G-NSDPG2-003	NS- 5/DPG2-RUD	Range +/- 5°, Vcc +7... 30VDC, output RS232, voltage +0.3 to +4.7V
G-NSDPG2-001	NS-10/DPG2-RUG	Range +/-10°, Vcc + 7... 30VDC, output RS232, voltage +0.3 to +4.7V
G-NSDPG2-002	NS-15/DPG2-RUG	Range +/-15°, Vcc + 7... 30VDC, output RS232, voltage +0.3 to +4.7V
G-NSDPG2-005	NS-30/DPG2-RUN	Range +/-30°, Vcc + 7... 30VDC, output RS232, voltage +0.3 to +4.7V

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