DPG-SERIES INCLINOMETER

SPECIFICATIONS

Dual axis inclinometer

Measurement ranges +/-5°, +/-10°, +/-15° and +/-30°

RS 232 and voltage output

FEATURES

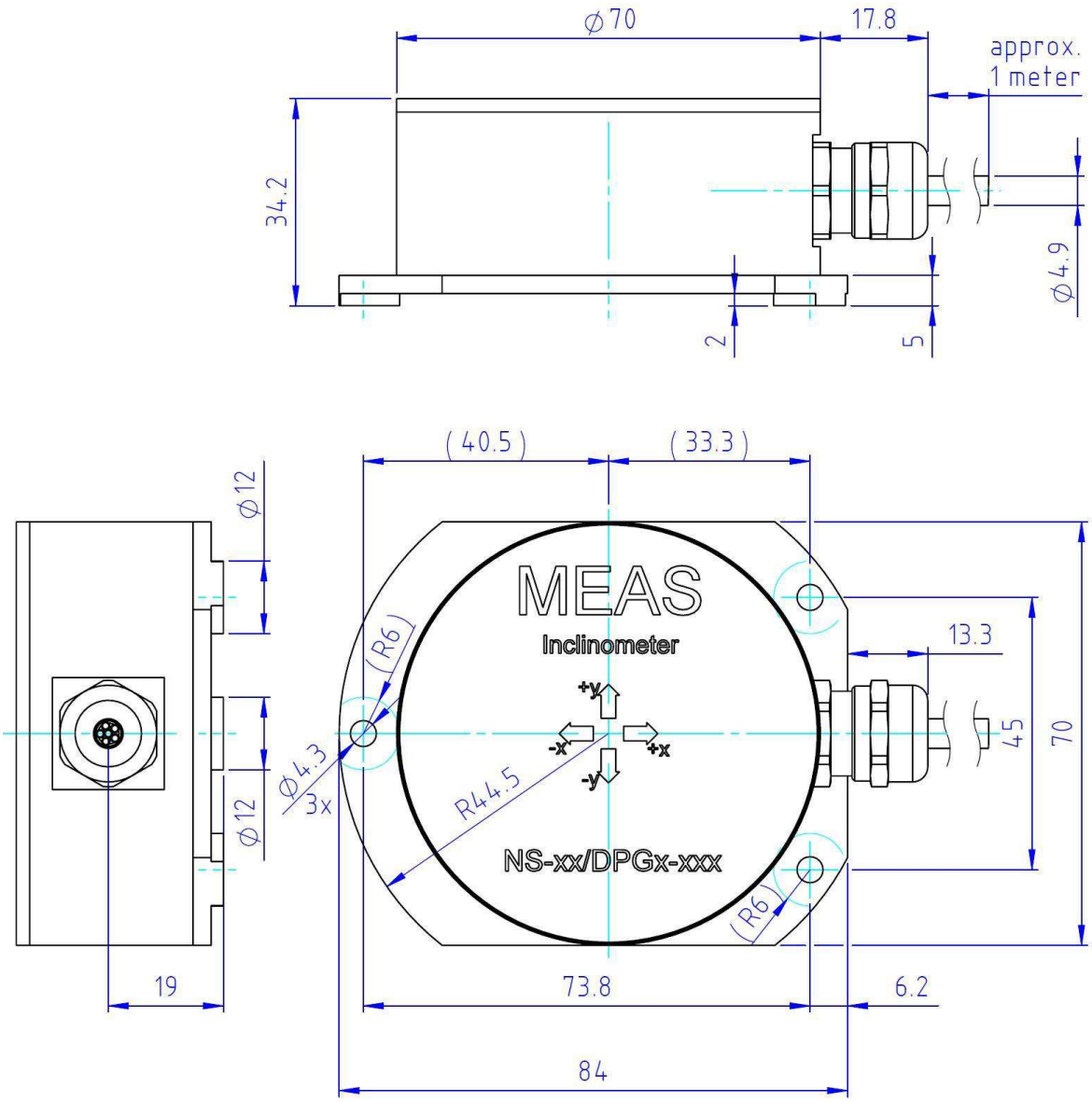
- Robust IP67/68 housing
- High accuracy
- High resolution
- Temperature compensated
- High output data transfer
- Cable integrated
- Programmable digital filtering to minimize influences from shock and vibration

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

APPLICATIONS

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

Dimensions [mm]



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.

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

NORTH AMERICA
Measurement Specialties, Inc.,
a TE Connectivity Company
Phone: 800-522-6752
Email: customercare.hmpt@te.com

EUROPE
MEAS Deutschland GmbH (Europe)
a TE Connectivity Company
Phone: 800-440-5100
Email: customercare.tlse@te.com

ASIA
Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Phone: 0400-820-6015
Email: customercare.shzn@te.com

TE.com/sensorsolutions

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

G-NSDPG2-003 G-NSDPG2-001