

DPG-Series Inclinometer

Dual axis inclinometer
Measurement ranges
 $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$
and $\pm 30^\circ$
RS 232 and voltage output



dimensions [mm]

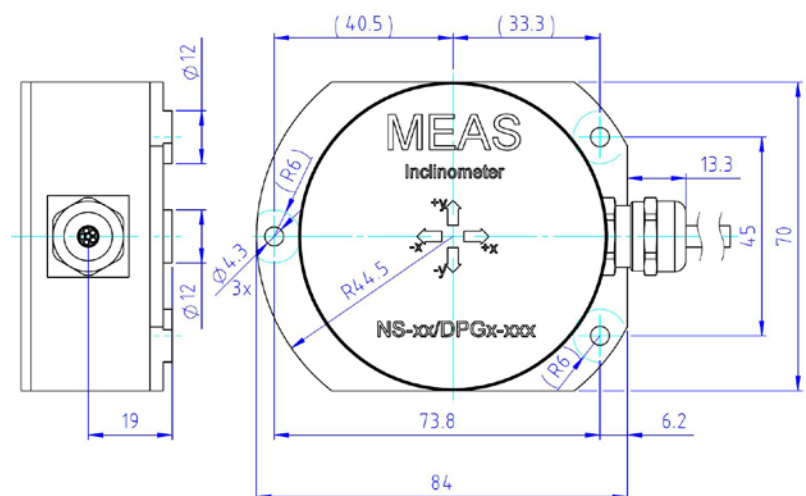
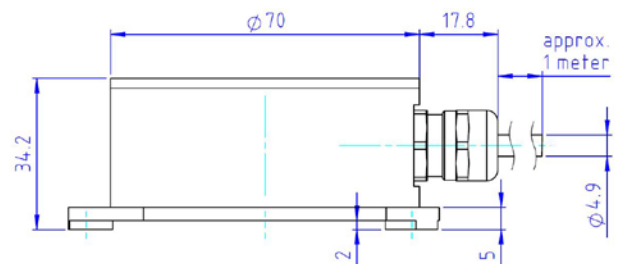
The DPG-Series dual axis conductive inclinometer in aluminum housing offers the user modern microprocessor technology with an integrated active linearization and temperature compensation. This inclinometer is full calibrated, easy to mount horizontally and absolute plug and play compatible.

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



DPG-Series Inclinometer

performance specifications

PARAMETERS

| | Conditions | Min | Type | Max | Unit |
|--------------------------------|--------------------|------------------|-----------------------|-------------------|------|
| Measurement range | | -5/-10/ -15/ -30 | | +5/ +10/ +15/ +30 | ° |
| Resolution | | 0.001 | | | ° |
| Accuracy 1 (absolute) | Ta = 0°...50°C | | 0.06/ 0.09/ 0.2/ 0.5 | | ° |
| Accuracy 2 (absolute) | Ta = -40°C...+85°C | | 0.12/ 0.15/ 0.25/ 0.8 | | ° |
| Offset temperature drift error | Ta = -25°C...+75°C | | 0.05 | | ° |
| | Ta = -40°C...+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.

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ordering info

PART NUMBERING

UNIT

SHORT DESCRIPTION

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