

# DPL2/DPN2- Series Inclinometer

Dual axis inclinometer  
Measurement range  
 $\pm 2$  up to  $\pm 30^\circ$   
with digital output signal



The **DPL2/DPN2-series** offers a dual axis conductive inclinometer as a PCB level. This inclinometer provides the user modern microprocessor technology with an active linearization and temperature compensation. This inclinometer is full calibrated and absolute plug and play compatible.

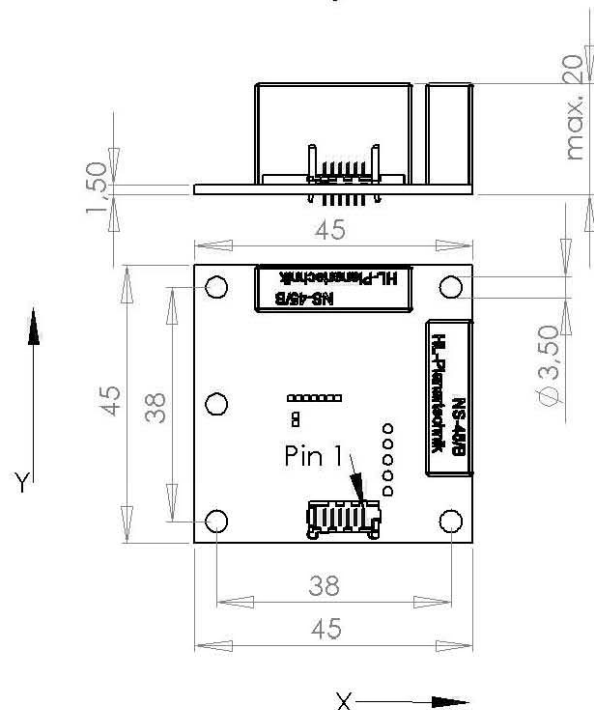
## FEATURES

- PCB level
- High accuracy
- Absolutely low noise
- High resolution
- Temperature compensated
- High output data transfer
- Digital output signal via RS232/TTL

## APPLICATIONS

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

## dimensions [mm]



**JIN ZON ENTERPRISE CO., LTD.**

TEL:886-2-2711-1093~5 FAX:886-2-2731-0902 ,2776-4624

Address : 4F-3. No.171. Sec.2. Chang An E. Rd. Taipei. Taiwan. R.O.C.

# DPL2/DPN2 - Series Inclinometer

## performance specifications

### PARAMETERS

	Conditions	Min	Type	Max	Unit
Measurement range (1)		-10		+10	°
Measurement range (2)		-15		+15	°
Resolution		0.001			°
Accuracy (absolute)	Ta = 0°...50°C, $\varphi <  10^\circ $		0.1		°
Accuracy (absolute)	Ta = -40°C ...+85°C		0.3		°
Initial Offset	Ta = 25°C		±0.15		°
Offset temperature drift error	Ta = -25°C...+75°C		0.05		°
	Ta = -40°C...+85°C		0.1		°
Output rate			10		Hz
Noise RMS			0.003		°
Current consumption			10		mA
Power supply (1)			5		VDC
Power supply (2)		7		30	VDC
Operation temperature range		-40		+85	°C
Storage temperature range		-40		+85	°C
Weight			20		g
Dimensions	W x D x H		45 x 45 x 14(20)		mm

(1) valid for unit NS-10/DPL2-UXG,NS-15/DPL2-UXG

(2) valid for unit NS-10/DPN2-RXG,NS-15/DPN2-RXG

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### ordering info

PART NUMBERING	UNIT	SHORT DISCRIPTION
G-NSDPL-004	NS-10/DPL2-UXG	Range +/-10°, Vcc +5 VDC, output TTL-level (UART)
G-NSDPN-005	NS-10/DPN2-RXG	Range +/-10°, Vcc +7...30 VDC, output RS 232
G-NSDPL-003	NS-15/DPL2-UXG	Range +/-15°, Vcc +5 VDC, output TTL level (UART)
G-NSDPN-006	NS-15/DPN2-RXG	Range +/-15°, Vcc +7...30 VDC, output RS 232

Units with measurement range of +/-2°, +/-5° and +/-30° are available soon. Please do not hesitate to contact us.



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