

## DUAL AXIS DIGITAL INCLINOMETER

### FEATURES

- High Resolution 0.01°
- Accuracy  $\pm 0.3^\circ$  (1 $\sigma$ )
- Laser Alignment for reference
- Dual Axis
- Ergonomically Designed
- Wide angle graphical LCD Display
- Easy to Use
- Handy, Light Weight & Portable
- Rechargeable Long Lasting Battery

### APPLICATIONS

- Civil Engineering Applications
- Industrial Automation
- Machine Platform Leveling
- Heavy Equipment Leveling
- Job Alignment in CNC, Lathe machine
- Antenna & Solar Panel Alignment
- Rail Alignment

### SPIN INC2D



### DESCRIPTION

The INC2D is a light weight, ergonomically designed digital inclinometer with graphical LCD display and laser alignment. It can measure inclination angles both (X and Y) axes with  $\pm 90^\circ$  measurement in X axis and  $\pm 60^\circ$  in Y axis. INC2D determines inclination by measurement of gravity vector using triaxial MEMS accelerometer. These in conjunction with the filtering techniques give accuracy of  $\pm 0.3^\circ$  (1 $\sigma$ ) with a resolution of 0.01°.

The INC2D comes with a magnetic base for easy mounting in industrial environment. It is battery operated and rechargeable Li-ion battery is built-in. Standard 5V USB charger with micro USB connector can be used for charging.

INC2D is best suited for civil construction applications, platform leveling, heavy equipment leveling, boom angle measurement, mast or pole height measurement and other leveling or alignment related applications.

## TECHNICAL SPECIFICATIONS

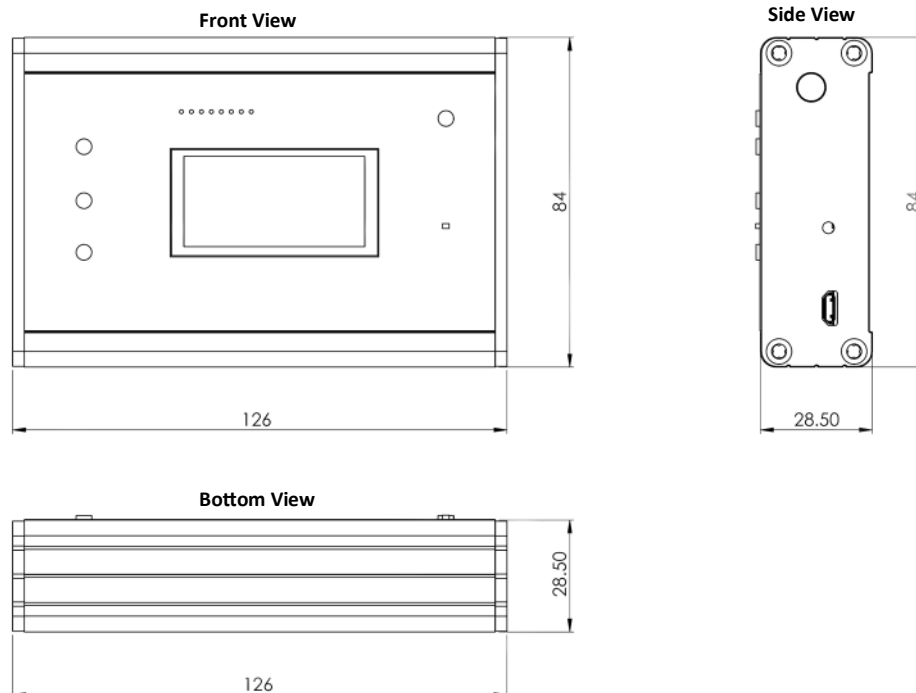
PARAMETER NAME	PARAMETER VALUE
	INC2D
Measuring range	X Axis : $\pm 90^\circ$ Y Axis : $\pm 60^\circ$
Accuracy <sup>1</sup>	$\pm 0.3^\circ$ (1 $\sigma$ )
Resolution	0.01 $^\circ$
Response time	< 0.4 s
X-axis alarm <sup>2</sup>	$\pm 90^\circ$
Y-axis alarm <sup>2</sup>	$\pm 60^\circ$
Laser Beam	Class 2, 635 nm red laser, < 1 mW
Operating Temperature	-10 $^\circ$ C to +55 $^\circ$ C
Display	Mono-color LCD with backlight
Buzzer	Sound level > 65dB
Battery	Rechargeable Li-Ion Battery 3.7V AA size
USB charging port	5V, 500 mA Micro B
Standby Time	2000 hours
Operating Time	40 hours
Dimensions	126mm (L) x 84mm (W) x 28.5mm (H)
Magnetic Base	On back side
Weight	< 350 gms

1 - Calibrated @ 25 $^\circ$  C, Temperature Characteristics:  $\pm 0.005^\circ/\text{C}$

2 - Configurable

## MECHANICAL DIMENSIONS

All dimensions in mm.



## ORDERING INFORMATION

**SPIN - INC2D** (Product Code: 16001)

MADE IN INDIA

Datasheet Ver. 4.0.7, Nov 2018