



# Digi Pas DWL-5800XY 2-Axis Inclinometer Sensor Module User Guide

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## *Digi-Pas*®

DWL-5800XY 2-Axis Inclinometer Sensor Module  
User Guide



2-Axis Precision Sensor Module  
DWL-5800XY  
QUICK START GUIDE

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## DWL-5800XY 2-Axis Inclination Sensor Module

### Calibration

Digi-Pas® device is calibrated in the factory for maximum accuracy.

Users can re-calibrate when necessary. for detail calibration please refer to the Instruction manual available online

### Cleaning

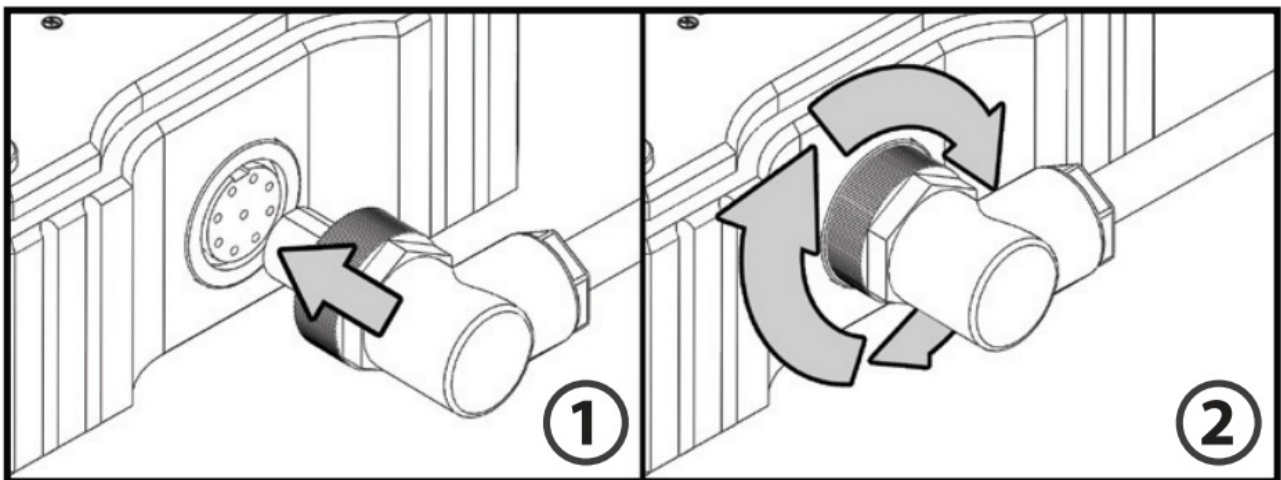
Do not use harsh chemicals, strong detergents or cleaning solvents to clean the device.

### Kit Contents

1. Sensor module
2. Sensor to DB-9 male cable
3. RS422/485 serial converter \*
4. Female DB-9 lead cable
5. Calibration Certificates
6. Quick Guide

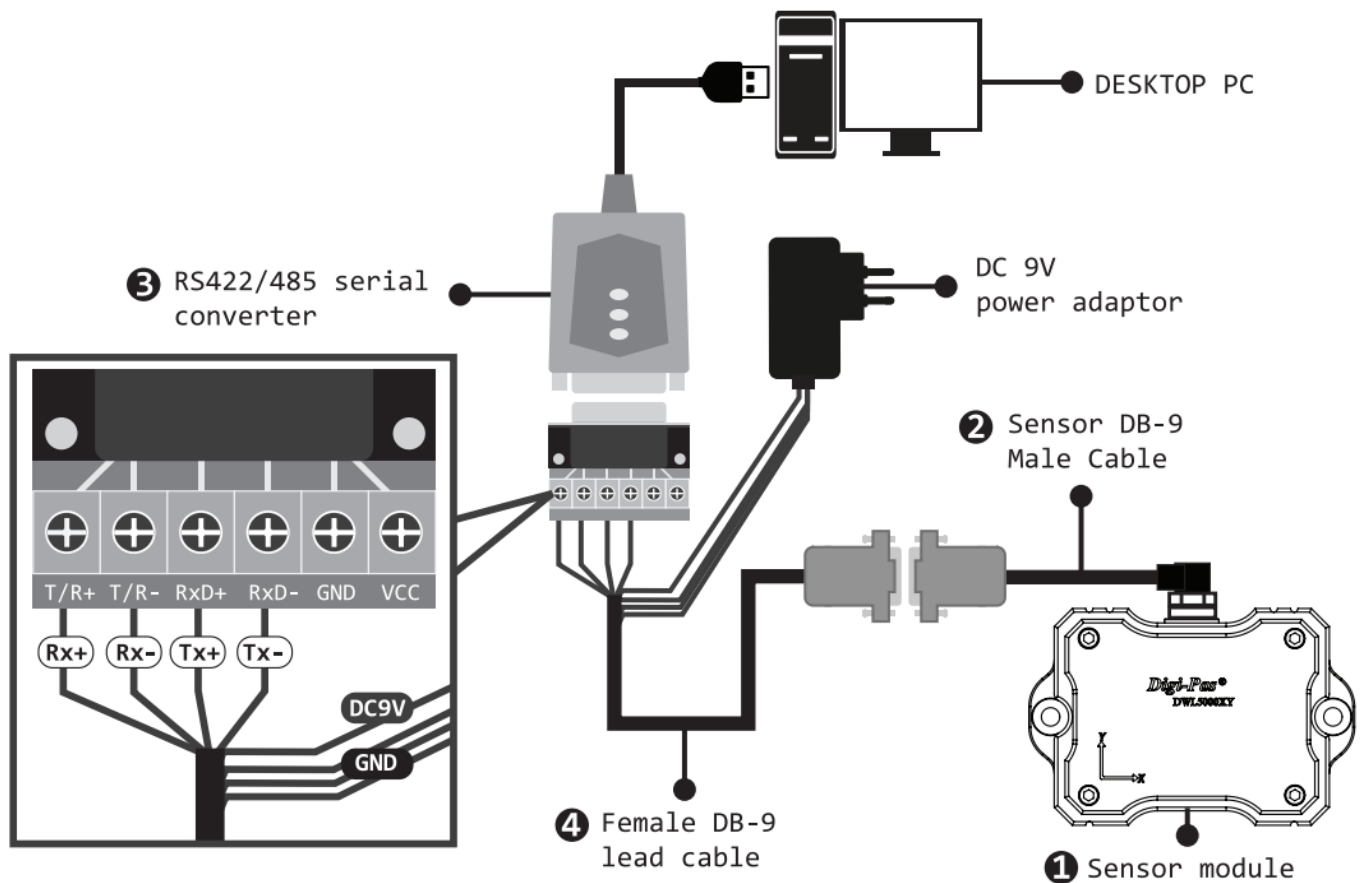
**Note:** 2 Converter driver available at digipaks website visit: <https://www.digipas.com/5800xy>

### Safety Precautions

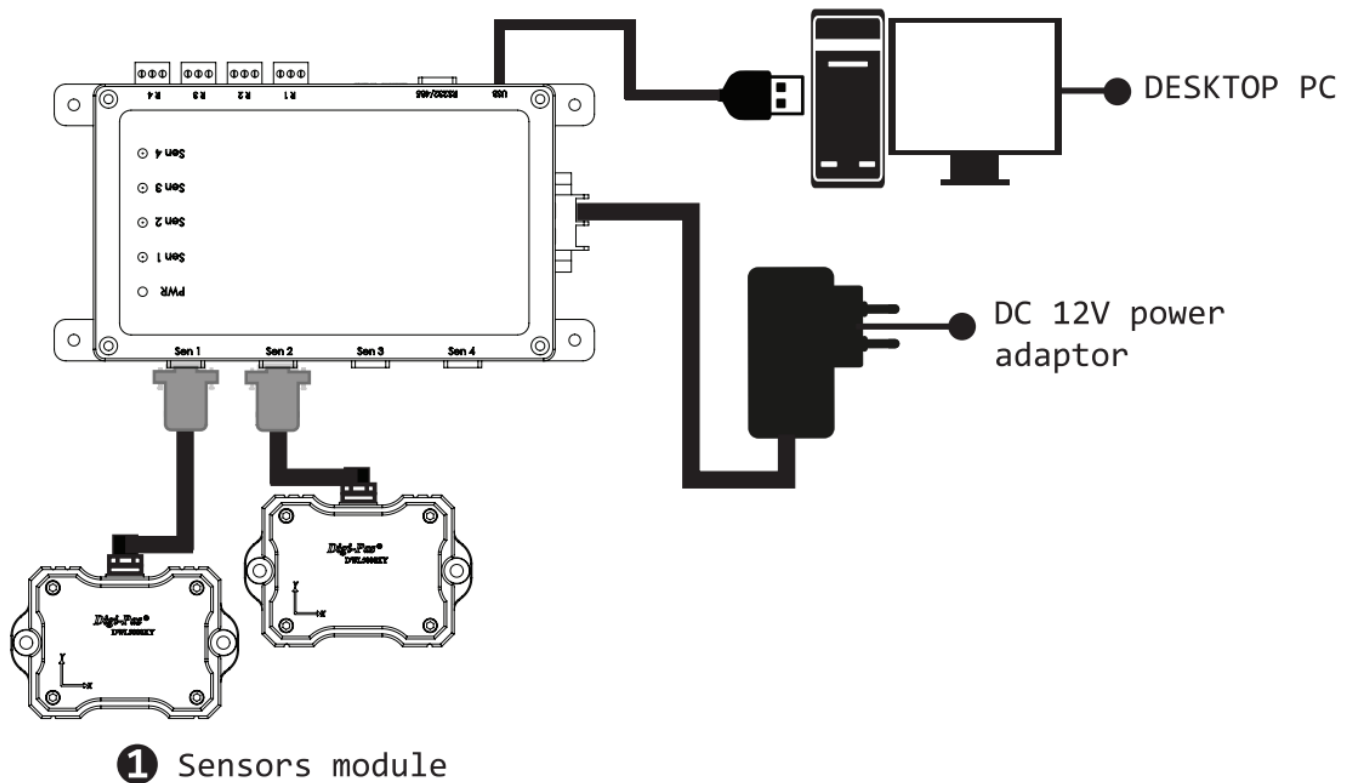


1. Ensure the circular multipole plug align with the receptacle on the sensor module by following the locking guide.
2. Secure the circular multipole plug by screwing it clockwise.

### Direct serial RS422/485 connection diagram



#### Multiple sensor connection diagram using control box



#### DWL-5800XY PC sync software

DWL-5800XY Professional PC Sync Software is available for download at [digipas.com](https://www.digipas.com) website.

**PROFESSIONAL PC SYNC SOFTWARE & DRIVER:** <https://www.digipas.com/5800xy>

SAMPLE CODE: <https://www.digipas.com/samplecode>

#### DWL-5800XY Instruction manual/Programing guide

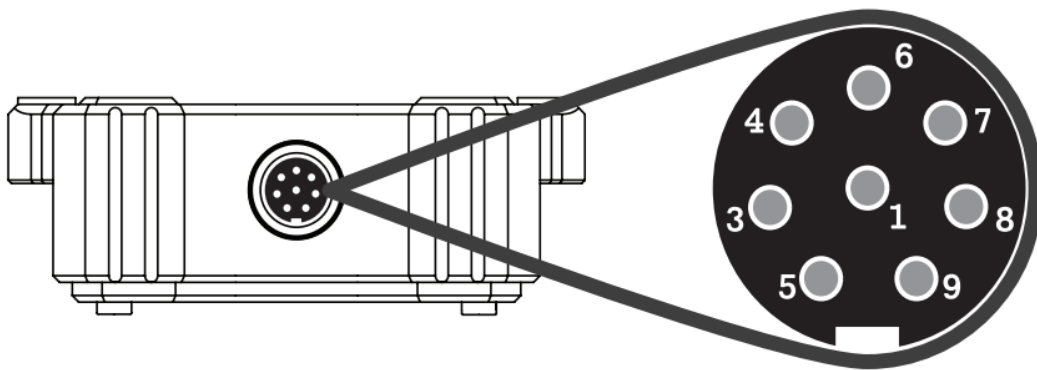
Quick guide and instruction manual & device driver are available at Digi-Pas website:



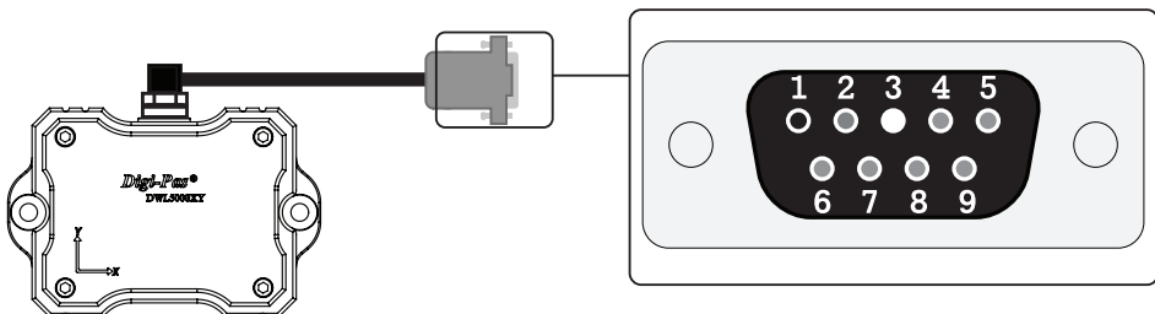
URL: <https://www.digipas.com/manual5800xy>

### Connection Pin-out

Pinout of the circular multipole connector of the tilt sensor module



Sensor DB-9 Male cable connector pin-out



Pin No.	Description
1	GND
2	N.0 (No Connection)
3	GND (without Control Box) or Signal 1 (For Control Box only)
4	GND (without Control Box) or Signal 2 (For Control Box only)
5	Power Input (Regulated 9V DC)
6	RS485 – A (Non-inverting Receiver Input/Tx+)
7	RS485 – B (Inverting Receiver Input/Tx-)
8	RS485 – Z (Inverting Driver Output)/Rx-
9	RS485 – Y (Noninverting Driver Output / Rx+)

## Technical Specification

Dimension (mm)	90 x 60 x 33
Weight (Approx.)	1200g
Power Voltage	9V t1V DC
Output Mode	RS485 (full duplex)
	USB, RS232, and SPDT Relay. * Wireless Bluetooth connectivity (optional) *
Waterproof Rating	IP65
Operating Temperature	10°C to +40°C
Storage Temperature	-30°C to +80°C

### Notes :

- Product specification and appearance ore subject to change for product improvement without prior notice.
- \*Control Box is required

## Warranty

Digi-Pas® Digital level is warranted to the original purchaser to be free from defects in workmanship and material. JSB Tech will, at its option, repair or replace any defective part which may malfunction under normal and proper use within a warranty period of 1 (one) year from the date of shipment. This one-year warranty clause is NOT applicable to European Union (EU) member states. Purchases made in EU member states will be covered by the existing consumer laws across the European Union, which provide statutory warranty rights in addition to the coverage of one year warranty period. The foregoing warranty shall not apply to defects resulting from misuse, abuse, or transfer by the Buyer, Buyer-supplied software or interfacing, or unauthorized modification or operation outside of environmental specifications for the product. JSB Tech does not warrant that the operation of the instrument software, or firmware, will be uninterrupted or error-free. The exclusive remedy under any and all warrants and guarantees expressed herein, and we shall not be liable for damages from loss or delay of equipment uses, consequential, or incidental damage. No other warranty is expressed or implied. JSB Tech specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.



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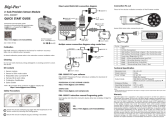
JQC-2-05801-99-004

Technical Support

Email : [info@digipas.com](mailto:info@digipas.com)



## Documents / Resources

	<p><a href="#">Digi Pas DWL-5800XY 2-Axis Inclination Sensor Module</a> [pdf] User Guide DWL-5800XY 2-Axis Inclination Sensor Module, DWL-5800XY, 2-Axis Inclination Sensor Modul e, Inclination Sensor Module, Sensor Module</p>
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