Digi-Pas®
A division of DIGIPAS group

Professional Precision Digital Level with Vibrometer

Innovation & Technology Driven™

Advanced Digital MEMS Technology

ANGLE | VIBRO | ALT. ZERO | Abs LEVEL | BLUETOOTH | TEMPERATURE COMPENSATED

Traditional Pendulum/Vial methods

Products tested by TÜV SÜD, SGS accredited body to comply with CE, FCC & RoHS, and traceable to UKAS, JIS, NIST & DIN, and manufactured under SGS certified ISO quality standards:

CE FC RoHS

ISO 14001:2004
Cert No:SG04/00450

ISO 9001:2008
Cert No: SG00/000500

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PROFESSIONAL PRECISION DIGITAL LEVEL

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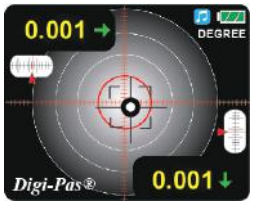
DWL3000XY and DWL3500XY is a 2-Axis High Precision Digital Level & Machinist Level with built-in Vibrometer. These digital levels are embedded with advanced MEMS sensor technology, designed for professional & trade specialist to achieve high accuracy and simultaneous display of angular & vibration measurements.
DWL2000XY is an affordable model introduced with basic features.

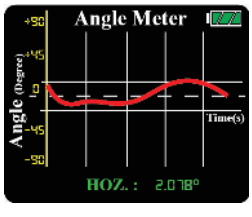
These digital levels are capable of remote real-time data acquisition, logging & analysis when in sync with PC. It is highly effective when used for installation, setting up and maintenance of high precision CNC machines, test and measuring equipment.

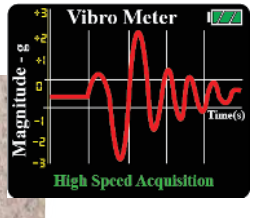
Device Overview

- 2-Axis colour graphic display of angular & vibration measurements
- Real-time digital & analogue display for data logging & analysis
- High resolution of 0.01°(175 µm/M) or 0.001°(18 µm/M) (3.6 arcsec.)
- Built-in Vibrometer for real-time vibration measurement.
- Wireless/USB connectivity for remote data logging & analysis.

Device TFT LCD Displays







Device Features & Icons

ANGLE METER

Real-time colour graphic display for Single/Dual Axis digital & analogue angle measurements & data acquisition, logging on device screen/PC monitor.

VIBRO METER

Real-time colour graphic display for vibration measurement and data logging on device screen/PC monitor.

ALTERNATE ZERO SETTING

Enable user to measure relative angles at a common plane with respect to a reference angle set to zero.

ABSOLUTE LEVEL SETTING

Enables user to perform absolute symmetry readings for both “front” & “reverse” (180 degrees) positions of any measurement angle.

SETTING MENU

Enable User to define various parameters on the device functions.

WIRELESS SYNC (Optional)

Wireless Sync to computer/tablet/smartphone for remote measurement, data acquisition, logging & analysis.

TEMPERATURE COMPENSATED

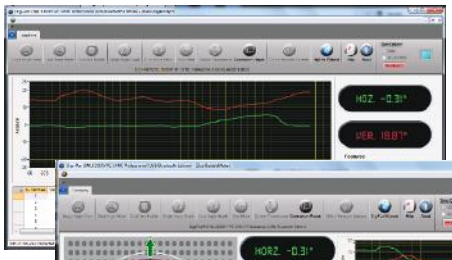
These instrument/device are temperature calibrated for the entire specified operating temperature range.

3-Points Contact Base

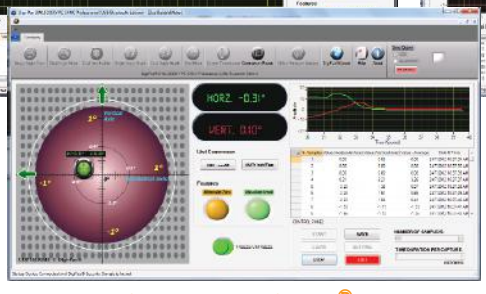
Authorised Distributors

PC Sync Software / Android Apps Sync

DUAL AXIS ANGLE GRAPH



VIBROMETER



SMART BULL'S-EYE®

Digi-Pas Level Sync

Software Features

- User-Friendly "Plug & Play" USB Connection for angle & vibration remote measurement, data acquisition, logging & analysis in computer.
- Bluetooth Connectivity (Optional) for wireless remote data acquisition, monitoring & logging.
- Mobile Android Apps "Digi-Pas Level Sync" in Android Tablet and Smartphone.

Scan QR code to download the apps

Bluetooth Connectivity
Smartphone / Tablet

Advantages of *2-Axis* Digital Level

- **SPEED & PRECISION**

  Instant 2-Axis simultaneous digital display of high resolution & accuracy providing a comprehensive solution for levelling, alignment & vibration measurements resulting in ***time saving*** and ***quality professional works***.

- **CLARITY**

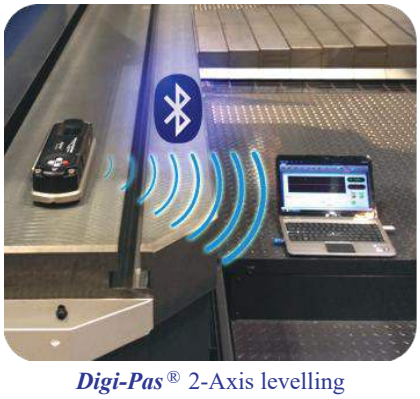
  Digital colour graphic & numeric display to enable real-time collection & storage of digital angle/levelling/alignment data for machine commissioning accountability & analysis.

- **EFFECTIVE**

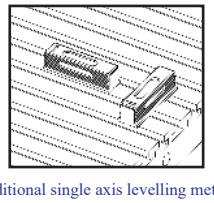
  The remote reading Wireless/USB Cable capability via PC/Tablet/Smartphone providing advantages that traditional single axis spirit level is difficult or unable to match. i.e. effectively, only one person is required to level/align a machine.

- **ACCREDITATION**

  Instrument accuracy is verified by accredited 3rd party Calibration & Test Service Providers in USA, Japan, UK & Germany and traceable to NIST, JIS, UKAS & DIN under ILAC & A2LA.



Digi-Pas ® 2-Axis levelling
Utilizing Advanced Digital MEMS Technology



Traditional single axis levelling method
(Vial bubble)

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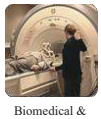
TECHNICAL SPECIFICATION :

Model	DWL2000XY	DWL3000XY	DWL3500XY
Measurement Range (Single Axis Mode)	0.00° to ± 90.00°	0.00° to ± 90.00°	0.000° to ± 20.000°
Measurement Range (Dual Axis Mode)	0.00° to ± 3.00°	0.00° to ± 15.00°	0.000° to ± 10.000°
Resolution	0.01° (175µm/M) (0.002 in/Ft)	0.01° (175µm/M) (0.002 in/Ft)	0.001° (18µm/M) (0.0002 in/Ft)
Accuracy	± 0.02° at 0.00° ~ ± 2.00° (349 µm/m) (0.004 in/Ft) (72 arcsec.) ± 0.04° at other angles	± 0.01° at 0.00° ~ ± 10.00° (175µm/M) (0.002 in/Ft) (36 arcsec.) ± 0.03° at other angles	± 0.001° at 0.000° ~ ± 2.000° (18µm/M) (0.0002 in/Ft) (3.6 arcsec.) ± 0.003° at other angles
Repeatability	0.01° (175µm/M) (0.002 in/Ft)	0.01° (175µm/M) (0.002 in/Ft)	0.001° (18µm/M) (0.0002 in/Ft)
Measurement Speed	≤ 3 Sec.	≤ 3 Sec.	≤ 5 Sec.
Vibrometer (Relative g)	-	1.0	2.0
Magnet	No	Yes	No
Display	Colour TFT LCD		
Power Supply*	4 x AAA 1.5V Batteries / USB		
Material	PC ABS / Aluminium		PC ABS / Cast Iron
Connectivity	USB 2.0 Cable (≤ 5 Meter)	USB 2.0 Cable (≤ 5 metre) Bluetooth Industrial Class 1 (≤30 metre) (Optional)	
PC SYNC Software	Professional Edition (Optional)	Basic Edition (Included) Professional Edition (Optional)	Basic Edition (Included) Professional Edition (Optional)
Operating Temperature	-10°C to +50°C (Calibrated for the entire temperature range)		
Storage Temperature	-20°C to +60°C		
Dimension (mm)	188 x 62 x 37		
Nett Weight (Approximate)	580 gram		1100 gram
User Self Calibration	Yes		

Note :
* Alternative device power can be obtained from External USB Power Source

Applications :


Biomedical & Pharmaceutical


CNC Machine Alignment


CMM Levelling (Metrology)


Research Laboratory


Semiconductor Production Machines


Aerospace & Defence


Railway & Transportation System

Authorised Distributor:

www.digipas.com

Digi-Pas® 2 Years Warranty

Scan QR code or visit **www.digipas.com**

JCL-2-03999-99-003

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