

The Alignimals DXL180 is a digital angle gauge that can display multiple units, supporting readings in angle, slope, inches, and mm/M units. The measurement range is 2x 0-180° and 4x 0-90°, and the instrument has four strong magnets on the bottom measurement reference plane. The V-shaped groove design makes it easy to place circular pipes for testing. Supports IP42 dustproof and waterproof, with M4 screw holes reserved on the back for easy installation and fixation. DXL180 is widely used in woodworking cutting, mechanical manufacturing, decoration design, photography hobbies, product testing and other applications.

- High precision ± 0.1°, high resolution 0.05°.
- 128x64 dot matrix backlight LCD display screen, supporting 5-digits display.

- Dual Measurement range: 0-90° and 0-180°.
- Angle, slope, inches, and mm/M units can be switched to display with just one click.
- The V-groove design of the shell can be easily placed on corners and round pipes.
- There are 4 strong magnets on the bottom surface.
- Simulated electronic bubble.
- Dust+Water IP42 Resistant.
- 360° automatic flip reading.
- Triple energy-saving design of the instrument extends battery life.

SPECIFICATION

Units: 90°, 180°, %, mm/M, inches/Feet

Measurement Range:

90° [o] Degree 90°: 4x 0-90°
180° [o] Degree 180°: 2x 0-180°
[%] Slope Grade %: 4x 0-199.99%

[mm] mm/M: 4x 0-1999.9 mm/M

[in] inches/Feet: 4x 0-24.00 " /Ft

Resolution: 0-90°: 0.05°, 0-180°: 0.05°

Slope Grade %: 0.05%, mm/M: 0.5mm/M

inches/Feet: 0.01 " /Ft

Accuracy: Degree: ±0.1° from 0° to 1°, 89° to

91°, 179° to 180°

±0.2° at all other angles

Slope Grade %: ±0.2% from 0% to 2%

±0.5% from 2% to 50%

±0.8% from 50% to 100%

±2.0% from 100% to 199.99%

mm/M: ±1.8mm from 0 to 17mm

±3.5mm from 17 to 500mm

±7.0mm from 500 to 1000mm

±18.0mm from 1000 to 1999.9mm

inches/Feet: ±0.02 " /Ft from 0 " to 0.2 " /Ft

±0.05 " /Ft from 0.2 " to 6 " /Ft

±0.08 " /Ft from 6 " to 12 " /Ft

±0.2 " /Ft from 12 " to 24 " /Ft

Operating/Storage Altitude: 6562 ft. (2000 m)

Operating/Storage temperature: 32° to 122°F (0° to 50°C)

Operating/Storage Humidity: <85% relative humidity

User Interface: 128x64 dot matrix backlight LCD

Batteries: 2x AAA

Power Consumption: Operation: 15mA.

Automatic shutdown: 15 minutes (No large movement duration), 4 hours (From power on)

Dimensions: 2.36" x 2.36" x 1.20" (60 mm x 60 mm x 31 mm)

Weight: 3.3 oz. (93 g) with batteries

Ingress Protection:IP42 Dust & Water Resistant

FEATURE DETAILS (FIG. A)

1.90° or 180° Measurement Unit 2.Relative/Absolute Measurement 3.Unit Mode 4.Battery Level 5.E-Bubble 6.Hold/Set Button

7.ZERO/Calibration Button 8.Power Button

9.V-Groove(s) 10.Two M4 Screw Hole(6mm maximum length) 11.Battery Door

12.Magnetic Base

BUTTONS AND FUNCTIONS

But-ton	Function Descriptions
Normal Mode	
	During normal operation, this button is mainly used to turn on/off. Press for one second to turn it on, then press for another second to turn it off.(In the calibration program,serves as the escape key.)
	Function 1: Press and release to set the current angle to zero, triangle

ZERO	Function 1: Press and release to set the current angle to zero, triangle
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HOLD /SET	Function 1: Pressing and release will lock the current angle reading.
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HOLD /SET	Function 2: Long press for three seconds to switch to five reading modes: 1) Angle mode 0-90° 2) Angle mode 0-180° 3) Slope % mode 4) mm/M mode 5) Inch IN/FT mode, for convenient conversion and use by personnel from different industries.(In the calibration program,serves as the confirmation key.)
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ESPAÑOL

El Alignimals DXL180 es un medidor de ángulo digital que puede mostrar múltiples unidades, admitiendo lecturas en ángulo, pendiente, pulgadas y unidades mm/M. El rango de medición es de 2x 0-180° y 4x 0-90°, y el instrumento cuenta con cuatro potentes imanes en el plano de referencia de medición inferior. El diseño de ranura en forma de V facilita la colocación de tubos circulares para pruebas. Soporta protección contra el polvo y el agua IP42, con agujeros de tornillo M4 reservados en la parte posterior para una instalación y fijación sencillas. El DXL180 se utiliza ampliamente en cortes de madera, fabricación mecánica, diseño de decoración, pasatiempos fotográficos, pruebas de productos y otras aplicaciones.

• Alta precisión ± 0.1°, alta resolución de 0.05°.

• Pantalla LCD retroiluminada de matriz de puntos 128x64, compatible con la visualización de 5 dígitos.

• Doble rango de medición: 0-90° y 0-180°.

• Ángulo, pendiente, pulgadas y unidades mm/M pueden cambiarse con solo un clic.

• El diseño de ranura en V de la carcasa permite colocarlo fácilmente en esquinas y tubos redondos.

• Hay 4 imanes fuertes en la superficie inferior.

• Burbuja electrónica simulada.

• Resistente al polvo y al agua con clasificación IP42.

• Lectura automática invertida de 360°.

• El diseño de ahorro de energía del instrumento prolonga la vida útil de la batería.

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FRANÇAIS

L'Alignimals DXL180 est un rapporteur d'angle numérique capable d'afficher plusieurs unités, prenant en charge les mesures en angle, en pente, en pouces et en mm/M. La plage de mesure est de 2x 0-180° et 4x 0-90°, et l'instrument est équipé de quatre aimants puissants sur le plan de référence de mesure inférieur. La conception en forme de V facilite le placement de tubes circulaires pour les tests. Il prend en charge la protection contre la poussière et l'eau de classe IP42, avec des trous de vis M4 réservés à l'arrière pour une installation et une fixation faciles. Le DXL180 est largement utilisé dans la découpe du bois, la fabrication mécanique, la conception de décoration, les loisirs photographiques, les tests de produits et d'autres applications.

• Haute précision ± 0.1°, résolution élevée de

0.05°.

• Écran LCD rétroéclairé matriciel 128x64 points, prenant en charge l'affichage à 5 chiffres.

• Double plage de mesure : 0-90° et 0-180°.

• L'angle, la pente, les pouces et les unités mm/M peuvent être commutés pour l'affichage en un seul clic.

• La conception en forme de V du boîtier permet de le placer facilement sur les coins et les tubes ronds.

• Quatre aimants puissants sont présents sur la surface inférieure.

• Niveau électronique simulé.

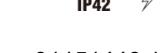
• Résistant à la poussière et à l'eau avec indice de protection IP42.

• Lecture automatique inversée à 360°.

• La conception triple économie d'énergie de l'instrument prolonge la durée de vie de la batterie.



FIG. A



01151446 1.2D

SPÉCIFICATIONS

Unités: 90°, 180°, %, mm/M, pouces/pieds

Plage de mesure:

90° [o] Angle 90° : 4x 0-90°

180° [o] Angle 180° : 2x 0-180°

[%] Pente en pourcentage % : 4x 0-199.99%

[mm] mm/M: 4x 0-1999.9 mm/M

[po] pouces/pieds : 4x 0-24.00 po/pied

Résolution: 0-90°: 0.05°

0-180°: 0.05°

Pente en pourcentage %: 0.05%

mm/M: 0.5mm/M

pouces/pieds: 0.01po/pied

Précision: Degré:

±0.1° de 0° à 1°, 89° à 91°, 179° à 180°,

±0.2° pour tous les autres angles

Pente en pourcentage %: ±0.2% de 0% à 2%

±0.5% de 2% à 50%

±0.8% de 50% à 100%

±2.0% de 100% à 199.99%

mm/M: ±1.8mm de 0 à 17mm

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User

ENGLISH

	This logo appears as the displayed relative value. When the zero button is pressed, the angle gauge resets the current angle to zero.
	Direction of tilt icons, show the tilt angle direction.

BATTERY/AUTOMATIC SHUTDOWN

The angle gauge uses 2x AAA batteries. When the angle gauge is left unused for 15 minutes or the reading remains unchanged, it will automatically shut down; At the same time, it will automatically shut down after 4 hours from power on. If the angle meter is left idle for 20 seconds, the LCD backlight brightness will decrease by about half which can save battery power.

Battery replacement:

- Loosen the screws and remove the battery cover.
- Properly dispose of waste batteries and install two new AAA batteries (pay attention to correct polarity).
- Install the battery cover and secure it with screwdriver.

MEASURE THE BASE PLANE(FIG. B)

The magnetic surface at the bottom of the instrument is the measurement base surface, and the measurement reading is the result of the contact between the base surface and the measured object. Do not use other surfaces of the instrument to measure the object.

RELATIVE/ABSOLUTE MEASUREMENT (FIG. C)

Relative measurement

LCD Icon:

Absolute Measurement

LCD Icon: Blank

Relative and Absolute Mode Switching:

- Press and release the "ZERO" key to set the relative measurement zero point.
- Press and release the "ZERO" key to cancel the relative zero point and back to absolute measurement mode.

ERROR MEASUREMENT(FIG. D)

When the angle gauge tilts forward/backward by more than approximately 30 °, the "NOTICE" interface will be displayed, and DXL180 cannot provide accurate measurements at these angles.

V-GROOVE(FIG. E)

120 ° V-shaped groove, capable of placing round

pipes and measuring corners.

Calibration Procedure

Step 1: Long press the "zero" button to enter the **Calibration Procedure**. During the calibration process, you can press the "Power" button to exit. Place the level on a flat horizontal surface (as long as it is roughly horizontal). The LCD will display "CALIBRATION1". Press the "HOLD/SET" button to confirm, and the LCD screen will flash; Please wait for the flashing to stop.(FIG. F)

Step 2: The LCD will display "CALIBRATION2" and then rotate 180 degrees to place it in the same position. Press the "HOLD/SET" button again, and the LCD screen will flash again; Please wait for the flashing to stop.(FIG. G)

Step 3: The LCD will display "CAUTION!" and "CALIBRATION3" flashing back and forth (the correction program has position error prevention

function), and place the power button vertically on a relatively flat wall with the power button facing upwards. Press the "HOLD/SET" button again, and the LCD screen will flash; Please wait for the flashing to stop.(FIG. H)

Step 4: The LCD will display "CALIBRATION4", rotate 180 degrees and still place it perpendicular to the wall (Power button facing downwards). Press the "HOLD/SET" button again, and the LCD screen will flash; Please wait for the flashing to stop. At this point, the LCD screen should return to the normal testing state. This indicates that the calibration program is complete.(FIG. I)

WARNING SYMBOLS ON PRODUCT

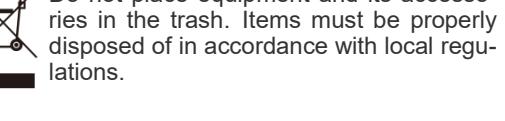
	Warning or Caution		Strong Magnetic Field
	Wear approved eye protection		Read instructions

STORAGE

Remove batteries when device is not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the device to return to normal operating conditions before using.

DISPOSAL / RECYCLE

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