



125p



126p



127p



127p



128p



129p



129p



130p



130p



131p



131p



132p



132p



133p



133p



134p



135p



136p



137p



137p



138p~139p



140p



140p



141p



141p

ANGLE



142p



143p



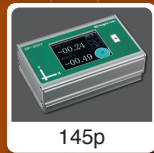
143p



144p



144p



145p



145p



146p



146p



147p



147p



148p



148p



148p



149p



149p



150p



150p



150p



150p



150p



150p



151p



151p



152p



152p



153p



153p



153p



153p



154p



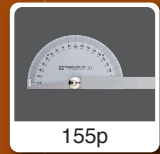
154p



154p



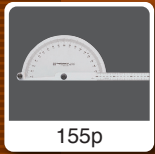
154p



155p



155p



155p



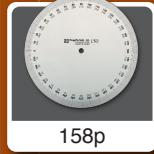
155p



157p



157p



158p



158p



159p



159p







160p





LEVELNIC
PRECISION
LEVEL
ANGLE
LEVEL
PROTRACTOR





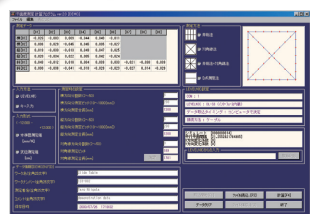
Angle Measurement Specifications Summary ※ Refer to the page listed for each item for detailed specifications

	Product Name	Model No.	Measuring Range	Minimum Reading	Page	
DIGITAL LEVEL	LEVELNIC	DL-S4W SERIES	± 5.00mm/m · ± 0.286°	0.001mm/m · 0.0001°	125	
	LEVELNIC	DL-S3 SERIES · DL-S3L	± 5.00mm/m · ± 0.286°	0.001mm/m · 0.0001°	126 · 127	
	LEVELNIC	DL-S2W SERIES	± 5.000mm/m · ± 0.2865°	0.001mm/m · 0.0001°	128	
	LEVELNIC SEPARATE SYSTEM	DL-S2 + DL-D3 + DL-P1	± 5.000mm/m · ± 0.2865°	0.001mm/m · 0.0001°	134	
	LEVELNIC	DL-S1	± 9.99mm/m	0.01mm/m	135	
	LEVELNIC	DL-m1 SERIES	± 5.00mm/m	0.01mm/m	129	
	LEVELNIC	DL-m3 SERIES · DL-m3LS	± 5.00mm/m	0.01mm/m	129 · 130	
LEVEL	LEVELNIC	EL-01A SERIES	± 0.2mm/m ± 1mm/m ± 2mm/m	0.01mm/m 0.05mm/m 0.1mm/m	136	
DIGITAL ANGLE LEVEL	DIGITAL PROTRACTOR	DP-30XY	± 30°	0.01° (0.1mm/m) Switchable	145	
	DIGITAL PROTRACTOR	DP-10XY SERIES	± 9.99°	0.01° (in sensor mode: 0.002°)	142	
	DIGITAL PROTRACTOR	DP-10S · 10D SET SERIES	± 9.99°	0.01° (in sensor mode: 0.002°)	143	
	DIGITAL LEVEL SENSOR	DP-10M SERIES	± 9.998°	0.002°	143	
	DIGITAL PROTRACTOR	DP-50	± 50°	0.1°	144	
	DIGITAL PROTRACTOR	DP-90G	± 90°	1mm/m · 0.05° · 0.1%	144	
	BEVEL BOX	BB-180	± 180°	0.1°	146	
	BEVEL BOX	BB-180A	± 180°	0.1°	146	
	BEVEL BOX	BB-180L	± 180°	0.1°	147	
	ANGLE LEVEL	LEVEL METER K Aidan	LM-90KDS · LM-90KD	0 ~ 90°	1°	147
DIAL SLANT RULE K Aidan		DSR-180KD · DSRM-180KD	0 ~ 180°	1°	148	
LEVEL MATE		LM-360	0 ~ 360°	1°	148	
LEVEL POINT M		LP-360	0 ~ 360°	1°	149	
PROTRACTOR	PROTRACTOR K Aidan No.19	PRT-19KD	180°	1°	152	
	PROTRACTOR K Aidan No.30	PRT-30KD	180°	1°	152	
	PROTRACTOR No.15	PRT-15	180°	1°	153	
	PROTRACTOR No.19 Satin finish	PRT-19	180°	1°	153	
	PROTRACTOR No.19 Polished finish	PRT-19S	180°	1°	153	
	PROTRACTOR No.19 2 blades	PRT-19SW	180°	1°	153	
	PROTRACTOR No.19A	PRT-19A	90°	1°	154	
	PROTRACTOR No.19B	PRT-19B	180°	1°	154	
	PROTRACTOR No.182	PRT-182S	180°	1°	154	
	PROTRACTOR No.183	PRT-183S	180°	1°	154	
	PROTRACTOR No.30	PRT-30S	180°	1°	155	
	PROTRACTOR No.101	PRT-101S	180°	1°	155	
	PROTRACTOR No.300	PRT-300S · PRT-300SW	180°	0.5°	156	
	PROTRACTOR No.400	PRT-400S · PRT-400SW	180°	0.5°	156	
	PROTRACTOR No.600	PRT-600S · PRT-600SW	180°	0.5°	156	
	PROTRACTOR No.1000	PRT-1000S · PRT-1000SW	180°	0.5°	156	
	PROTRACTOR No.192	PRT192-90S · 120S PRT192-90S2 · 120S2	180°	1°	157	
	PROTRACTOR No.192	PRT192-200S · 250S · 300S PRT192-200S2 · 250S2 · 300S2	180°	0.5°	157	
	PROTRACTOR No.193	PRT193- □	360°	1°	158	
	INSIDE PROTRACTOR	IP-90	10° ~ 90°	1°	158	
	UNIVERSAL BEVEL PROTRACTOR	495DA	360°	5'	160	
	ANGLE GAUGE	ANGLE GAUGE	WGA-65	25 ~ 65° · 70 ~ 110°	0.5° · 1°	159
		ANGLE PROTRACTOR	AP-130	30 ~ 130° · 0 ~ 90° · 0 ~ 180°	1°	159

■ HIGH PRECISION LEVEL LEVELNIC SERIES

Body Picture	 Built-in wireless	 Built-in wireless		
Model Name · Model No.	Levelnic DL-S4W series	Levelnic DL-S2W series	Levelnic DL-S3 series	Levelnic DL-S3L
Features	<ul style="list-style-type: none"> ● Display of high precision 0.001mm/m ● Switchable wire / wireless 	<ul style="list-style-type: none"> ● Display of high precision 0.001mm/m ● Wireless data output 	<ul style="list-style-type: none"> ● Display of high precision 0.001mm/m ● Wired data output (RS-232C) 	<ul style="list-style-type: none"> ● Levelnic DL-S3 with L-type base ● Magnetic base enables Z-axis measurement in addition to X-axis and Y-axis. ● Super strong magnet
Resolution	0.001mm/m · 0.0001°	0.001mm/m · 0.0001°	0.001mm/m · 0.0001°	0.001mm/m · 0.0001°
Measuring Range	± 5.00mm/m · ± 0.286°	± 5.000mm/m · ± 0.2865°	± 5.00mm/m · ± 0.286°	± 5.00mm/m · ± 0.286°
Wireless Data Output	○	○	△: Optional ⇒ P131	△: Optional ⇒ P131
Wired Data Output	○	×	○	○
Display Measured Value	○	×	○	○
Refer to	125	128	126	127

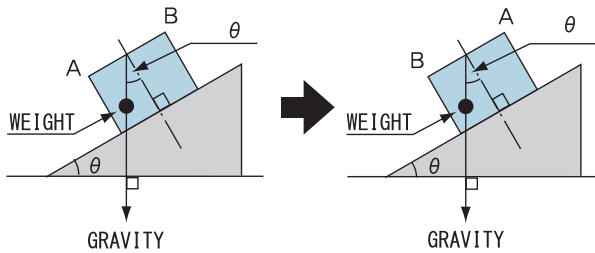
Body Picture				
Model Name · Model No.	Levelnic DL-m3 series	Levelnic DL-m3LS	Levelnic DL-m1 series	Separate System / Levelnic Cable
Features	<ul style="list-style-type: none"> ● Display of 0.01mm/m ● Lightweight, compact and easy-to-carry ● Wired data output (RS-232C) 	<ul style="list-style-type: none"> ● Levelnic DL-m3 on L-type base ● Magnetic base enables Z-axis measurement in addition to X-axis and Y-axis. 	<ul style="list-style-type: none"> ● Display of 0.01mm/m ● Lightweight, compact and easy-to-carry 	<ul style="list-style-type: none"> ● Display of high precision 0.001mm/m ● Suitable for leveling of higher place and larger machinery
Resolution	0.01mm/m	0.01mm/m	0.01mm/m	0.001mm/m · 0.0001°
Measuring Range	± 5.00mm/m	± 5.00mm/m	± 5.00mm/m	± 5.000mm/m · ± 0.2865°
Wireless Data Output	△: Optional ⇒ P131	△: Optional ⇒ P131	×	△: Optional ⇒ P131
Wired Data Output	○	○	×	○
Display Measured Value	○	○	○	Levelnic Display
Refer to	129	130	129	134

Body Picture			<ul style="list-style-type: none"> ● Wireless adapter ● Levelnic display ● Software for flatness and straightness measurement ● Carrying case other options are available.
Model Name · Model No.	Levelnic DL-S1	Levelnic EL-01A	  <p>Please refer to P127 ~ P139</p>
Features	<ul style="list-style-type: none"> ● Display of 0.01mm/m ● Wide measuring range of ± 9.99mm/m 	<ul style="list-style-type: none"> ● Display of 0.01mm/m Analog level ● Connectable to analog recorder 	 
Resolution	0.01mm/m	± 0.2mm/m (1division 0.01mm/m) ± 1mm/m (1division 0.05mm/m) ± 2mm/m (1division 0.1mm/m)	
Measuring Range	± 9.99mm/m		
Wireless Data Output	×	×	
Wired Data Output	×	○: Analog output	
Display Measured Value	○	○	
Refer to	135	136	

LEVELNIC PRINCIPLES OF OPERATION

The role of "0 adjustment", and "1/2 adjustment".

Levelnic, like every level, is an instrument which is sensitive to its position relative to earth's gravity. The operation is as follows. We can show how we determine true horizontal using the following method. On a slope, put a board with a weight suspended by a string. The weight will hang at an angle of θ from a line perpendicular to the slope. If the board is rotated 180° , the weight will hang at the same angle θ from a line perpendicular to the slope. Without having an absolute reference, we can determine the angle 2θ by rotating our instrument 180° and measuring the total change in angle relative our perpendicular reference. We can thereby determine θ if we divide by two. Also notice that the angle of the slope relative to true horizontal is also θ . If we set zero with the level on a slope, when we rotate the level 180° the reading will be twice the actual angle of the slope. If we then adjust the slope of the surface being measured (the device under test) until the angle reading is reduced to 1/2 of that value, the surface will be horizontal. Conversely, some desire having an absolute standard only because of confusion or misunderstanding regarding the above process.



※DL-S4W, DL-S3, DL-m1, DL-m3, have a built in computer to allows one touch adjustment using the 0 adjust and 1/2 adjust buttons

Zero point set

Levelnic does not have true horizontal reference built in. When it is turned on, the first number that appears is not necessarily referenced to true horizontal. If you need to reference true horizontal, you will have to set a zero point each time you turn it on. Once the zero point is correctly set, each measurement is properly reference to true horizontal, eliminating any possible errors from the deviation of zero point. To set zero point a "0 adjust" and "1/2 adjust" operation must be performed.

A) To compare slope of different surfaces

- ① Place levelnic on an inclined surface.
 - ② When display stabilizes press "0 adjust" and "0" will be displayed.
- For comparison purposes a zero point has been set which is not true horizontal.

B) If zero point is set to true horizontal

- ① Place the levelnic on the surface to be adjusted to horizontal.
 - ② Adjust surface until display stabilizes to zero.
- The surface is level.

C) If you are unsure if a surface is horizontal

- ① Place the levelnic on the surface.
 - ② When display stabilizes press "0 adjust" and "0" will be displayed.
 - ③ Rotate the levelnic 180° and put in the same spot.
 - ④ When display stabilizes press "1/2 adjust", and display will be halved.
- Zero is now set to true horizontal.

To set the zero point precisely, there should be minimal slope in the roll direction (perpendicular to the measurement axis), so please set the level in two directions (X, Y) to set zero.

Handling instruction for Levelnic

- Levelnic is a precision instrument. Please handle with care and avoid shock such as bumping or dropping.
- Before use, the levelnic base and the surface to be measured should be wiped clean of any dirt or oil using a paper towel or cloth dampened with ligroin or alcohol.
- There should be no temperature difference between levelnic and surface being measured. In general, precision measurements should be done in a temperature controlled environment.
- After use, the levelnic base should be coated with an anti-rust oil to protect from corrosion.

LEVELNIC DL-S4W SERIES



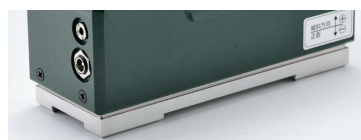
HOW TO MOVE

The latest model of Levelnic series. Built-in wireless.
Measurement value can be checked both on PC screen and the device's display panel.

- High precision Digital Level
- Resolution 0.001mm/m
- Switchable between wired and wireless
- Stainless steel base type that not requires rust prevention maintenance (DL-S4W SUS)



DL-S4W



DL-S4W SUS

For vertical measurement ▶

L-type Base

P127

For setting a fixed pitch ▶

Levelnic Base with Adjustable Pitch

P137

For flatness and straightness calculation ▶

Levelnic Measurement Software

P138
~139

Rust prevention ▶

Zerust Film for Steel

P380

USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement.

MATERIAL

- Body: Aluminum

FEATURES

- Wireless data transmission
- PC screen becomes display of Levelnic
- Measurement data can be displayed on PC, using receiver and data display software
- Switchable between wireless / wired for saving of electricity and long-time use
- USB receiving unit installed. The driver is supported by the automatic recognition system.
- Equipped with two rechargeable batteries, enables running measuring by using a spare battery while the other is being charged
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base

SPECIFICATIONS

Measuring Range*1	± 5.00mm/m ± 0.286°
Minimum Reading	0.001mm/m 0.0001° (within ± 1.999mm/m) 0.01mm/m 0.001° (over ± 2mm/m)
Operating Temperature	0 ~ 40°C
Accuracy*2	Operating temperature 17 ~ 23°C ± 0.85% rdg (within ± 1.999mm/m) ± 1.0% rdg (over ± 2mm/m) Operating temperature 0 ~ 40°C ± 2.6% rdg (within ± 1.999mm/m) ± 2.7% rdg (over ± 2mm/m)
Repeatability	Within ± 0.005mm/m ± 0.0003°
Output Signal	Conforms to RS-232C, wired*4, built-in wireless system (Bluetooth Class1*5, wireless range: 30 ~ 50m)
Power Source	9V 006P type dry cell 1pc 8.4V 006P type rechargeable battery 1pc AC adapter (DC9V output · AC100V ~ 240V) included
Run time (continuous use)*3	Zinc-carbon cell: Approx. 12 hrs. (wireless use approx. 3 hrs.) Alkaline cell: Approx. 30 hrs. (wireless use approx. 10 hrs.) Rechargeable battery 10 hrs. (wireless use approx. 4 hrs.)
Dimensions	L158 × W61 × H107mm (Base dimensions: L150 × W55mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 8.4V 006P type rechargeable battery 2pcs ● Battery charger ● Dedicated display software ● USB receiving unit

* 1: For DEG (°) Display mode, "0 (Zero)" before the decimal point is not displayed.
For 0.001mm/m (0.0001°) display mode, maximum reading which can be displayed is less than ± 1.999mm/m (± 0.1145°).
* 2: % rdg indicates the percentage of displayed value
* 3: May vary depending upon measurement conditions
* 4: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)
* 5: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)

Order No.	Model No.	Software Language	Base Material	Weight
010053	DL-S4W	Japanese	Cast iron	2.0kg
010111	DL-S4W SUS		Stainless steel SUS303	2.0kg
010085	DL-S4W-E	English	Cast iron	2.0kg



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

LEVELNIC DL-S3 SERIES



HOW TO MOVE

High accuracy Level with simple & clear operation.
The world's first Digital Level with built-in Microcomputer.

- High precision Digital Level
- Resolution 0.001mm/m
- Rechargeable Battery (DL-S3C / DL-S3C SUS)
- Stainless steel base type that not requires rust prevention maintenance (DL-S3 SUS / DL-S3C SUS)



For vertical measurement L-type Base P127	For wireless communication Wireless Adapter P131
For display measured value for two connections Transmitter and display set P132	For setting a fixed pitch Levelnic Base with Adjustable Pitch P137
For flatness and straightness calculation Levelnic Measurement Software P138 ~139	Rust prevention Zerust Film for Steel P380

USE

- High precision leveling of machine tools and surface plates. Straightness, flatness and vertical measurement.

MATERIAL

- Body: Aluminum

FEATURES

- Easy to fix the datum point, divide measurement value into halves with one-touch operation (with "0" cal. switch, 1/2 cal. switch)
- Measurement value can be output with RS232 signal
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base
- DL-S3C is rechargeable type. It can be charged when not in use.

SPECIFICATIONS

Model No.	DL-S3/DL-S3 SUS	DL-S3C/DL-S3C SUS
Measuring Range*1	± 5.00mm/m · ± 0.286°	
Minimum Reading	0.001mm/m · 0.0001° (0 ~ ± 2mm/m · 0 ~ ± 0.115°) 0.01mm/m · 0.001°	
Operating Temperature	0 ~ 40°C	
Accuracy *2	Operating temperature 17 ~ 23°C ± 0.85%rdg (0 ~ ± 2mm/m · 0 ~ ± 0.115°) ± 1.0%rdg (± 2 ~ ± 5mm/m · ± 0.115° ~ ± 0.286°) Operating temperature 0 ~ 40°C ± 2.6%rdg (0 ~ ± 2mm/m · 0 ~ ± 0.115°) ± 2.7%rdg (± 2 ~ ± 5mm/m · ± 0.115° ~ ± 0.286°)	
Repeatability	Within ± 0.005mm/m · ± 0.0003°	
Output Signal	Conforms to RS-232C *4	
Charging time	—	12 hrs. (when fully charged)
Power Source	9V 006P type dry cell 1pc AC adapter (DC9V output · AC100V ~ 240V) included	Ni-MH battery (8.4V 200mAh)
Run time (continuous use) *3	Zinc-carbon cell: Approx. 10 hrs. Alkaline cell: Approx. 20 hrs.	12 hrs. charge: Approx. 9 hrs. 8 hrs. charge: Approx. 6 hrs. 4 hrs. charge: Approx. 2 hrs.
Dimensions	L172 × W65 × H129mm (base dimension: L150 × W55mm)	
Accessories	<ul style="list-style-type: none"> ● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell 	<ul style="list-style-type: none"> ● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC15V output) ● Ni-MH battery (8.4V 200mAh)

※ 1: For DEG (°) Display mode, "0 (Zero)" before the decimal point is not displayed.
 For 0.001mm/m (0.0001°) display mode, maximum reading which can be displayed is less than ± 1.999mm/m (± 0.1145°).
 ※ 2: % rdg indicates the percentage of displayed value
 ※ 3: May vary depending upon measurement conditions
 ※ 4: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Battery Type	Base Material	Weight
010013	DL-S3	9V dry cell	Cast iron	2.2kg
010030	DL-S3C	Ni-MH battery		2.2kg
010112	DL-S3 SUS	9V dry cell	Stainless steel SUS303	2.2kg
010113	DL-S3C SUS	Ni-MH battery		2.2kg

With V groove base - available on request

Model	DL-S3V
Tolerance	Within 0.1mm/m (on condition that the bubble in the sub-bubble tube is within the base line)
Tolerance Between Flat and V Groove	Within 0.05mm/m
Angle of V Groove	130° (for cylindrical objects up to φ 65mm)

LEVELNIC DL-S3L



HOW TO MOVE

For flatness and straightness calculation
Levelnic Measurement Software
P138
~139

LEVELNIC DL-S3 with magnetic L-type base.
Magnetic base enables Z-axis measurement in addition to X-axis and Y-axis.



USE

- High precision leveling of machine tools and surface plates.
Straightness, flatness and vertical measurement.

MATERIAL

- DL-S3 / Body: Aluminum
- L-type base: Cast iron

FEATURES

- Quick digital display of the measured value
- Measurement value can be output with RS-232 signal
- L-type magnetic base enables vertical (Z-axis) measurement
- With 130° V groove

POWER

- 9V dry cell 1pc
- AC adapter (DC9V output · AC100V~240V)

ACCESSORIES

- Shock resistant aluminum case
- Warranty · Instruction manual · Inspection report
- AC adapter (DC9V output · AC100V~240V)
- 9V dry cell

Please refer to DL-S3(P126) for detailed specifications for this unit

Order No.	Model No.	Base Squareness (mm)	Weight
010027	DL-S3L	Within ± 0.04	5.5kg

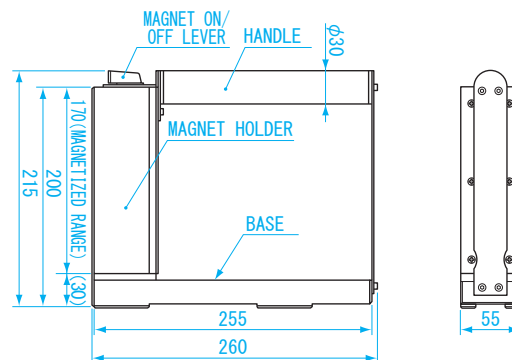
L-TYPE BASE FOR LEVELNIC DL-SL

LEVELNIC DL-S4 series · DL-S3 series · DL-S2W series,
equipped with L-type base enables measurement in the Z-axis in addition to X-axis and Y-axis



● DIMENSIONS

Units: mm



USE

- L-type base for Levelnic

MATERIAL

- Cast iron

FEATURES

- Applicable Levelnic: DL-S4W series, DL-S3 series, DL-S2W series
- Vertical (Z-axis) measurement is available by applicable Levelnic mounted on
- L-type magnetic base enables vertical (Z axis) measurement
- With 130° V groove

ACCESSORIES

- Shock resistant aluminum case

Order No.	Model No.	Base Squareness (mm)	Weight
010028	DL-SL	Within ± 0.04	4.9kg

LEVELNIC DL-S2W SERIES



HOW TO MOVE

Wireless Data transmission. Same specification as DL-S3, and wireless system equipped. The maximum longitudinal coverage is 50 ~ 100m.

- High precision Digital Level (Wireless by Bluetooth)
- Resolution 0.001mm/m
- Stainless steel base type that not requires rust prevention maintenance (DL-S2W SUS / DL-S2W (USB) SUS)



For vertical measurement ▶
L-type Base
 P127

For setting a fixed pitch ▶
Levelnic Base with Adjustable Pitch
 P137

For flatness and straightness calculation ▶
Levelnic Measurement Software
 P138 ~139

Rust prevention ▶
Zerust Film for Steel
 P380

USE

- High precision leveling of machine tools and surface plates. Straightness, flatness and vertical measurement.

MATERIAL

- Body: Aluminum

FEATURES

- Wireless data transmission
 - Wireless type Levelnic, useful for leveling and tilt measurement;
 - In overhead location
 - In places where the cable can not reach
 - PC screen becomes display of Levelnic
 - Measurement data can be displayed on PC, using receiver and data display software
 - Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base
- ※ This model does not have display on the unit. PC or display unit is required for display the measured values.

SPECIFICATIONS

LEVELNIC	Measuring Range	± 5.000mm/m · ± 0.2865°
	Minimum Reading	0.001mm/m · 0.0001°
PRECISION LEVEL	Operating Temperature	0 ~ 40°C
	Accuracy *1	Operating temperature 17 ~ 23°C ± 0.85% rdg (0 ~ ± 2mm/m, 0 ~ ± 0.1146°) ± 1.0% rdg (± 2 ~ ± 5mm/m, ± 0.1146 ~ ± 0.2865°)
ANGLE		Operating temperature 0 ~ 40°C ± 2.6% rdg (0 ~ ± 2mm/m, 0 ~ ± 0.1146°) ± 2.7% rdg (± 2 ~ ± 5mm/m, ± 0.1146 ~ ± 0.2865°)
LEVEL	Repeatability	Within ± 0.005mm/m · ± 0.0003°
PROTRACTOR	Radio System	Bluetooth Class1 *2
	Power Source	9V 006P type dry cell 1 pc (nominal voltage 8.4V rechargeable battery can also be used) AC adapter (DC9V output · AC100V ~ 240V) included
	Run time (Continuous use)	Alkaline dry cell: Approx. 10 hrs (nominal voltage 8.4V rechargeable battery: Approx. 3 ~ 4 hrs.) ※ May vary depending upon measurement conditions
	Dimensions	L173 × W59 × H147mm (H: up to top of antenna) (base dimensions: L150 × W55mm)
	Accessories	DL-S2W, DL-S2W SUS DL-S2W-E ● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell ● Receiving unit *3 ● Power source cable for wireless unit ● Dedicated display software
		DL-S2W (USB) SUS DL-S2W (USB) ● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell ● USB receiving unit ● Dedicated display software

※ 1: % rdg indicates percentage of displayed value
 ※ 2: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)
 ※ 3: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Receiving Unit Type	Software Language	Base Material	Weight
010017	DL-S2W	D-SUB9	Japanese	Cast iron	2.1kg
010054	DL-S2W(USB)	USB			2.1kg
010114	DL-S2W SUS	D-SUB9		Stainless steel SUS303	2.1kg
010115	DL-S2W (USB) SUS	USB			2.1kg
010029	DL-S2W-E	D-SUB9	English	Cast iron	2.1kg

LEVELNIC DL-m1 SERIES



Digital display with 0.01mm/m resolution. Unlike bubble level, there is no delay waiting for reading to settle, reducing human error.

- High precision Digital Level
- Stainless steel base type (DL-m1 SUS)
- Resolution 0.01mm/m

USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement.

MATERIAL

- Body: Aluminum

FEATURES

- Compact, lightweight and simple operation
- Easy to fix the datum point, divide measurement value into half with one touch operation
- Fast output reduces installation time for field work



DL-m1 SUS



For vertical measurement ▶
L-type Base
 P130

Rust prevention ▶
Zerust Film for Steel
 P380

Order No.	Model No.	Base Material	Weight
010014	DL-m1	Cast iron	880g
010117	DL-m1 SUS	Stainless steel SUS303	920g

SPECIFICATIONS

Measuring Range	± 5.00mm/m
Minimum Reading	0.01mm/m
Operating Temperature	0 ~ 40°C
Accuracy ※	Operating temperature 17 ~ 23°C ± 0.02mm/m or ± 3% rdg whichever is larger (0 ~ ± 2mm/m) ± 4% rdg (± 2 ~ ± 5mm/m) Operating temperature 0 ~ 40°C ± 0.02mm/m or ± 5% rdg whichever is larger (0 ~ ± 2mm/m) ± 6% rdg (± 2 ~ ± 5mm/m)
Repeatability	Within ± 0.01mm/m
Power Source	9V dry cell 1 pc
Run time (continuous use)	Zinc-carbon cell: Approx. 45 hrs. / Alkaline cell: Approx. 90 hrs. ※ May vary depending upon the measurement conditions
Dimensions	L105 × W50 × H73mm (base dimensions: L100 × W50mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

※ % rdg indicates the percentage of displayed value



LEVELNIC DL-m3 SERIES



Digital display with 0.01mm/m resolution. Unlike bubble level, there is no delay waiting for reading to settle, reducing human error.

- High precision Digital Level
- Stainless steel base type (DL-m3 SUS)
- Resolution 0.01mm/m

With data output

USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement.

MATERIAL

- Body: Aluminum

FEATURES

- Digital display for easy to read measurement
- Compact, lightweight and simple operation
- Equipped with RS-232C output for combination use of Data recording, Straightness and Flatness software



DL-m3 SUS



For vertical measurement ▶
L-type Base
 P130

For flatness and straightness calculation ▶
Levelnic Measurement Software
 P138 ~139

Rust prevention ▶
Zerust Film for Steel
 P380

Order No.	Model No.	Base Material	Weight
010015	DL-m3	Cast iron	880g
010118	DL-m3 SUS	Stainless steel SUS303	920g

SPECIFICATIONS

Measuring Range	± 5.00mm/m
Minimum Reading	0.01mm/m
Operating Temperature	0 ~ 40°C
Accuracy ※1	Operating temperature 17 ~ 23°C ± 0.02mm/m or ± 3% rdg whichever is larger (0 ~ ± 2mm/m) ± 4% rdg (± 2 ~ ± 5mm/m) Operating temperature 0 ~ 40°C ± 0.02mm/m or ± 5% rdg whichever is larger (0 ~ ± 2mm/m) ± 6% rdg (± 2 ~ ± 5mm/m)
Repeatability	Within ± 0.01mm/m
Output Signal	Conforms to RS-232C ※2
Power Source	9V dry cell 1 pc
Run time (continuous use)	Zinc-carbon cell: Approx. 35 hrs. / Alkaline cell: Approx. 70 hrs. ※ May vary depending upon measurement conditions
Dimensions	L105 × W50 × H73mm (base dimensions: L100 × W50mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

※ 1: % rdg indicates percentage of displayed value

※ 2: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

LEVELNIC DL-m3LS



HOW TO MOVE

Levelnic DL-m3 on L-type Base.
X-axis, Y-axis as well as Z-axis measurements are possible.

For flatness and straightness calculation ▶
Levelnic Measurement Software
P138
~139

Rust prevention ▶
Zerust Film for Steel
P380



※ Base does not have magnetic capability

USE

- High precision leveling of machine tools and surface plates.
Straightness, flatness and vertical measurement.

MATERIAL

- DL-m3 / Body: Aluminum
- L-type base: Cast iron

FEATURES

- Digital display
- Compact and lightweight
- Equipped with RS-232C output for combination use of Data recording, Straightness and Flatness software
- L-type base allows measurements in the vertical direction
- With 130° V groove

ACCESSORIES

- Shock resistant aluminum case
- Warranty · Instruction manual · Inspection report
- 9V dry cell

Please refer to DL-m3 (P129) for detailed specifications for this unit

Order No.	Model No.	Base Squareness (mm)	Weight
010019	DL-m3LS	Within ± 0.035	2.8kg

LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

L-TYPE BASE FOR LEVELNIC DL-mL

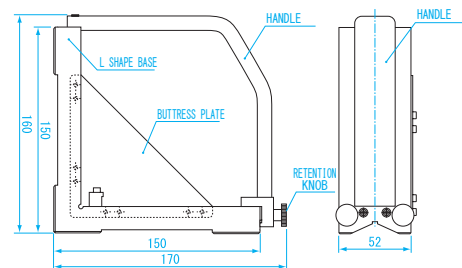
Levelnic DL-m1, m3 mounted on base will be able to take vertical measurements

Rust prevention ▶
Zerust Film for Steel
P380



● DIMENSIONS

Units: mm



※ Base does not have magnetic capability

USE

- L-type base for Levelnic

MATERIAL

- Cast iron

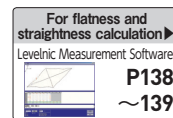
FEATURES

- Applicable Levelnic: DL-m1 series, DL-m3 series
- Vertical (Z-axis) measurement is available by applicable Levelnic mounted on
- With 130° V groove

ACCESSORIES

- Shock resistant aluminum case

Order No.	Model No.	Base Squareness (mm)	Weight
010022	DL-mL	Within ± 0.035	1.9kg



BLUETOOTH BOX

Attach Bluetooth Box to applicable levelnic for wireless data transmitting.
Can be functioned in any countries by using Bluetooth dongle.

USE

- Wireless data transmitting is available by attaching to applicable Levelnics

MATERIAL

- Body: Aluminum
- Switch Panel: ABS

FEATURES

- RS-232C output signal from Levelnic is transmitted by Bluetooth
- Can be used in any country with a locally available dongle
- Eliminating cables greatly improves work efficiency



Mounting example to DL-S3

SPECIFICATIONS

Input	Levelnic RS-232C signal only		
Wireless	Bluetooth ※ Class depends on USB dongle		
Applicable USB Dongle adaptor	Bluetooth 3.0 and higher, SPP profile		
Power Source	Lithium polymer battery (chargeable with USB charging cable)		
Run time (continuous use)	Approx. 7 hrs.	Charging	Approx. 2 hrs.
Dimensions	L82 × W35 × H24mm		
Applicable Levelnic	DL-S3 series, DL-m3 series, DL-m3LS, DL-D3, DL-S3L		
Accessories	Data cable, USB charging cable, mounting plate, instruction manual, Bluetooth USB dongle adaptor Class 1 (Japan Only)		

Order No.	Model No.	Weight
152036	DTW-DL01	80g



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

LEVELNIC WIRELESS ADAPTER DL-BW / DL-BW (USB)

Allows communicating with Levelnic using Bluetooth.
Wireless range of 50-100m line-of-sight.

USE

- Wireless adapter for Levelnic

MATERIAL

- Body: Stainless

FEATURES

- The RS232C output signal is transmitted using Bluetooth wireless
- Eliminating cables greatly improves work efficiency



Mounting example to DL-S3C

SPECIFICATIONS

Input	Levelnic RS-232C signals (Levelnic use only)		
Wireless	Bluetooth Class1 ※1		
Power Source	AA battery 6 pcs (rechargeable batteries can be used)		
Run time (continuous use)	Alkaline cell: Approx. 70 hrs. / Zinc-carbon cell: Approx. 30 hrs. 1700mAh rechargeable battery: Approx. 45 hrs. ※ May vary depending upon measurement conditions		
Dimensions	L143 × W50 × H173mm (including transmission unit)		
Applicable Levelnic	DL-S3 series, DL-S3L, DL-m3, DL-m3LS, DL-D3 ※ DL-S3 series can direct mount		
Accessories	Mounting parts, receiving unit, USB power cable for receiving unit (DL-BW only), AA battery × 6, instruction manual		

※ A small thermal printer can not be used

※ 1: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)

※ 2: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Receiving Unit Type	Weight
010038	DL-BW	D-SUB9 ※2	530g
010055	DL-BW (USB)	USB	530g

TRANSMITTER / DISPLAY SET

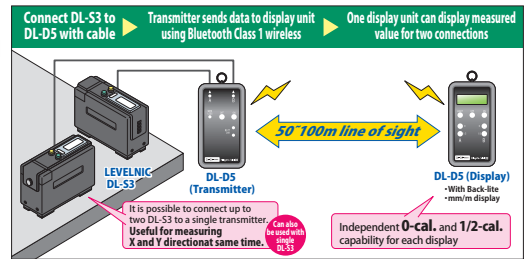
For displaying measurements from two DL-S3 series products in one handy device at the same time.
Suitable for X and Y direction measurement.

USE

- Transmit and display measurements for up to two Levelnic DL-S3 series products

FEATURES

- Simultaneous display of two connected DL-S3 series products. Useful for measuring X and Y directions.
- Eases installation of large machine tools by allowing multiple operators to work at same time
- Measured data is more easily visible, especially when used in locations which are remote or have low clearance height
- Since transmitter and receiver are a paired set, there is no need to set up after purchase -- it can be used immediately



SPECIFICATIONS

	Transmitter	Display
Input	Levelnic DL-S3 series external signal (×2)	—
Display	—	16 char × 2 lines character size = 4.9 × 2.5mm with backlight
Wireless	Bluetooth Class1 ^{※1}	
Communication Range	50 ~ 100m line-of-sight (depending on conditions)	
Operating Temperature	0 ~ 40°C	
Power	2 × AA battery (can also use commercially available rechargeable batteries)	
Operating life (continuous use)	Communicating with display device: Approx. 17 hrs. attempting communication with display: Approx. 3 hrs.	Alkaline cells: Approx. 8 hrs.
Dimensions	144 × W76 × D27mm (including lanyard ring) (when mounted in silicone cover: L147 × W81 × D35mm)	
Accessories	2 × connecting cable (approx. 80cm length) 2 × AA battery, silicone cover	2 × AA battery, silicone cover

- ※ 1: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)
- ※ 2: The value of three decimal places digit of the display may show inappropriate number when using DL-m3
- ※ 3: Including batteries and silicone cover

Order No.	Model No.	Compatible Model	Weight
010043	DL-D5	DL-S3 series • DL-S3L • DL-m3 ^{※2}	290g each ^{※3}

LEVELNIC DISPLAY

Can display data at a distance. Enables measurement process to be done by one person.
The work for two can be done by one person.

USE

- Levelnic measurement data display

MATERIAL

- Body: Stainless steel

FEATURES

- Can divide measurement value into half with one-touch operation (DL-S2W series only)



Combination example with DL-S2W

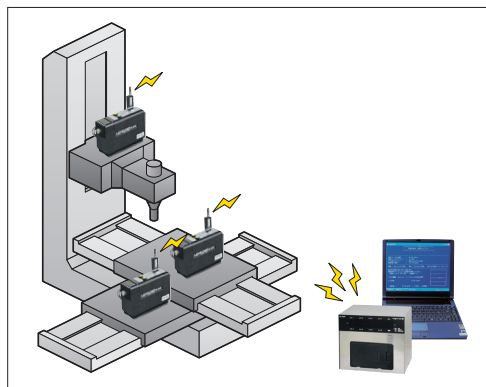
Order No.	Model No.	Weight
010024	DL-D4	330g

SPECIFICATIONS

Display Range	As per Levelnic spec.
Minimum Reading	As per Levelnic spec.
Operating Temperature	0 ~ 40°C
Input Signal	Conforms to RS-232C (Levelnic digital output signal only)
Power Source	9V dry cell (nominal voltage 8.4V rechargeable battery can also be used) / AC adaptor (included)
Run time (continuous use)	With wireless connection: Alkaline cell: Approx. 5 hrs. With cable connection: Alkaline cell: Approx. 60 hrs. ※ May vary depending upon measurement conditions
Dimensions	L116 × W62 × H48mm
Applicable Levelnic	DL-S3 series, DL-S3L, DL-m3 series, DL-m3LS, DL-S2W series, DL-S4W series (wired) ※ DL-P5AD, DL-P6 can also use cable connection ※ DL-S2W, DL-BW can connect using built-in wireless capability ※ DL-S4W (USB receiving unit), DL-S2W (USB), DL-BW (USB) cannot be used on this unit
Accessories	AC adaptor (DC9V output • AC100V ~ 240V), 9V dry cell, instruction manual

LEVELNIC DATA SYSTEM

Enables data display and saving of up to eight Levelnic with one PC



USE

- For data management of multiple Levelnics

MATERIAL

- Body: Stainless steel

FEATURES

- Eight Levelnics can be connected at once
- Data display & recording software included (auto capture function)

Example using multiple units with Bluetooth wireless communication

SPECIFICATIONS

Order No.	Model No.	Software Language	Weight
010037	DL-ADP	Japanese	1.6kg
010089	DL-ADP-E	English	1.6kg

Input	D-SUB (9 pins, male) RS-232C compliant, 8 inputs (for Levelnic connection only) 1200 baud, 1 stop bit, no parity, no handshaking
Output	D-SUB (9 pins, male)* RS-232C compliant, 1 output (PC connection) 9600 baud, 1 stop bit, no parity Hardware flow control
Operating Temperature	0 ~ 40°C
Power Source	AC100V adapter (DC9V output) AA batteries 6 pcs (rechargeable battery can also be used) ※ Run time depends on number of Levelnics
Dimensions	W180 × H150 × D130mm
Applicable Levelnic	DL-S3 series, DL-S3L, DL-m3 series, DL-m3LS, DL-S2W series, DL-S4W series (wired) ※ DL-P5AD, DL-P6 can also use cable connection ※ DL-S2W, DL-BW can connect using built-in wireless capability ※ DL-S4W (USB receiving unit), DL-S2W (USB), DL-BW (USB) cannot be used on this unit
Accessories	Data recording software, RS-232C cross cable, AC adaptor (DC9V output 100V), AA battery × 6, instruction manual

※ PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

LEVELNIC SD LOGGER 3

Measured value is recorded directly on SD card.

Loading data automatically at a specific interval by script function.

USE

- To record measured value by Levelnic
- Measured value can be recorded on SD card without PC

FEATURES

- To record data on sites that PC is not suitable
- Recorded data by text format can be used with other software
- Loading data automatically at a specific interval by script written in advance on SD card
- Paperless by saving data on SD card



SPECIFICATIONS

Input	Levelnic RS-232C signal
SD card	SD / SDHC Max. 32GB
Power	AC adaper (DC9V) included
Dimensions	W120 × D100 × H39mm
Applicable Levelnic	DL-S4W (wired), DL-S3 series, DL-S3L, DLm3 series, DL-m3LS, DL-D3

Order No.	Model No.	Weight
010044	DT-MCK3-XS-SK	170g



LEVELNIC

PRECISION
LEVEL

ANGLE

LEVEL

PROTRA
CTOR

SEPARATE SYSTEM / LEVELNIC CABLE

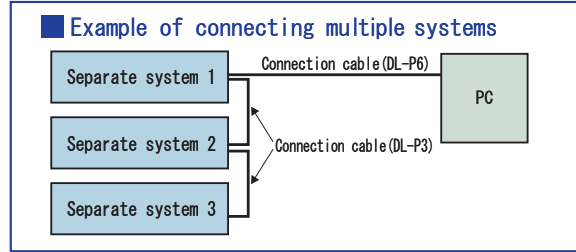


HOW TO MOVE

- High accuracy Digital Level
- Resolution 0.001mm/m



- Digital sensor (DL-S2) • Digital display (DL-D3) • Cable (DL-P1) as combined system
- ※ PC is not included



USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement for digital display.

MATERIAL

- Body: Aluminum
- Sensor base: Cast iron

FEATURES

- Display allows machine tool data obtained by Levelnic to be close at hand
- Output data is available on built in RS-232C interface for connection to computer or printer
- Multiple output signals can be combined onto one signal allowing expansion to 2, 3, or 4 devices for easy processing
- Easy to fix the Datum point, divide measurement value into half with one touch operation
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base

SPECIFICATIONS

Measuring Range	$\pm 5.000\text{mm/m} \cdot \pm 0.2865^\circ$
Minimum Reading	0.001mm/m · 0.0001° 0.01mm/m · 0.001°
Operating Temperature	0 ~ 40°C
Accuracy	Operating temperature 17 ~ 23°C $\pm 0.85\%$ rdg (0 ~ $\pm 2\text{mm/m} \cdot 0 \sim \pm 0.1146^\circ$) $\pm 1.0\%$ rdg ($\pm 2 \sim \pm 5\text{mm/m} \cdot \pm 0.1146 \sim \pm 0.2865^\circ$)
	Operating temperature 0 ~ 40°C $\pm 2.6\%$ rdg (0 ~ $\pm 2\text{mm/m} \cdot 0 \sim \pm 0.1146^\circ$) $\pm 2.7\%$ rdg ($\pm 2 \sim \pm 5\text{mm/m} \cdot \pm 0.1146 \sim \pm 0.2865^\circ$)
Repeatability	Within $\pm 0.005\text{mm/m} \cdot \pm 0.0003^\circ$
Output Signal	Conforms to RS-232C*
Power Source	AA battery 6 pcs AC adapter (DC9V output · AC100V ~ 240V) included
Run time (continuous use)	Zinc-carbon cell: Approx. 27 hrs. Alkaline cell: Approx. 55 hrs. ※ May vary depending upon measurement conditions
Dimensions	DL-S2 L167 × W59 × H111mm (base dimension: L150 × W55mm) DL-D3 L235 × W106 × H51mm DL-P1 Length: 5m (standard cable) / DL-P3 Length: 4.5m
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V)

※ PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Product	Model No.	Weight
010023	DISPLAY UNIT	DL-D3	1kg
010012	LEVELNIC	DL-S2	2kg
010031	CONNECTING CABLE FOR LEVELNIC	DL-P1	400g
010033	CONNECTING CABLE FOR DISPLAY UNIT	DL-P3	100g

■ PC connection cable

USE

- For connecting Levelnic to PC

SPECIFICATIONS

- Length: $\phi 3\text{mm} \times 5\text{m}$
- 9 pins connector (serial port connection)
- Applicable Levelnic: DL-S4W series, DL-S3 series, DL-S3L, DL-m3 series, DL-m3L, Separate system
- ※ PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)



Order No.	Model No.	Material
010040	DL-P6	2 cond. w/ shield (Cu)

LEVELNIC DL-S1



HOW TO MOVE

Digital display with 0.01 mm/m resolution.
 Unlike bubble level, there is no delay waiting for reading to settle, reducing human error.

- High precision Digital Level
- Resolution 0.01mm/m



USE

- High precision leveling of machine tools and surface plates, straightness and flatness measurement

MATERIAL

- Body: Aluminum
- Base: Cast iron

FEATURES

- Faster response than bubble level
- Wider range of measurement than conventional level
- Measurement can be taken in difficult-to-see position by pressing hold switch and then reading

SPECIFICATIONS

Measuring Range	± 9.99mm/m
Minimum Reading	0.01mm/m
Operating Temperature	0 ~ 40°C
Accuracy *1	Operating temperature 17 ~ 23°C ± 1.3% rdg Operating temperature 0 ~ 40°C ± 3.0% rdg
Repeatability	Within ± 0.01mm/m
Power Source *2	9V dry cell 1 pc AC adapter (100V ~ 240V) (optional)
Run time (continuous use)	Zinc-carbon cell: Approx. 25 hrs. Alkaline cell: Approx. 50 hrs. ※ May vary depending upon measurement conditions
Dimensions	L159 × W78 × H104mm (base dimension: L150 × W55mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

※ 1: % rdg indicates percentage of displayed value

※ 2: AC adapter sold separately

Order No.	Model No.	Weight
010011	DL-S1	2.0kg

With V groove base - available on request

Model	DL-S1V
Rolling Error	Within 0.1mm/m when the bubble of auxiliary bubble tube is centered
Plane and V groove error	Within 0.05mm/m
V groove angle	130° (for cylindrical objects up to φ 65mm)



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

LEVELNIC EL-01A SERIES



High-sensitive (0.01mm/m). Pendulum type level with analog output.
Three levels of sensitivity.

- High precision Analog Level
- Resolution 0.01mm/m



USE

- Leveling of machine tools and surface plates.
- Straightness and flatness measurements.

MATERIAL

- Body: Aluminum

FEATURES

- Quicker response than bubble level
- Sensitivity is switchable in three steps
- Connectible directly to commonly-available analog recorder through analog output
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base
- Pendulum system prevents any hysteresis errors and is not influenced by temperature change

SPECIFICATIONS

Sensitivity	I : 1Division = 0.01mm/m II : 1Division = 0.05mm/m III : 1Division = 0.1mm/m
Measuring Range (3 Range)	± 0.2mm/m (1Division 0.01mm/m) ± 1mm/m (1Division 0.05mm/m) ± 2mm/m (1Division 0.1mm/m)
Operating Temperature	0 ~ 40°C
Pointing Error	Within ± 0.5 Division
Repeatability Accuracy	Within ± 0.005mm/m
Output Signal	Analog output ± 200mV F.S. (for all range) Connectible load resistance: No less than 100 Ω
Power Source	9V dry cell 1 pc AC adapter (DC9V output · AC100V ~ 240V) included
Run time (continuous use)	Zinc-carbon cell: Approx. 25 hrs. Alkaline cell: Approx. 50 hrs. ※ May vary depending upon measurement condition
Base Dimension	L150 × W85 × H195mm ※ Excluding Handle (dimension: L150 × W55mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell

Order No.	Model No.	Base Material	Weight
010005	EL-01A	Cast iron	2.9kg
010116	EL-01A SUS	Stainless steel SUS303	2.9kg

■ Connection Cable / EL-K2

USE

- Connects to analog recorder with analog output of EL-01A

SPECIFICATIONS

- Length: φ3 × 5m ● Recorder: Banana plug
- Levelnic: M3 plug

Order No.	Model No.	Weight
010082	EL-K2	150g

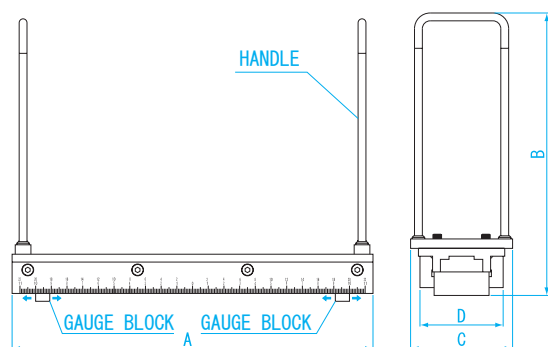
LEVELNIC BASE WITH ADJUSTABLE PITCH

By attaching Levelnic to this base, any desired measurement pitch can be set



LP-300

● DIMENSIONS



USE

- Setting a fixed pitch for straightness and flatness measurements

MATERIAL

- Carbon steel for machine structural use

FEATURES

- Applicable levelnic: DL-S4 series, DL-S3 series, DL-S2W series, DL-S2, EL-01A series
- The base is graduated in mm and enables setting measurement pitch
- Measuring face consists of 2 pcs of 15mm Gauge block

Units: mm

Model No.	A	B	C	D
LP-200	230	180	65	55
LP-300	330	180	65	55

Order No.	Model No.	Measurement pitch range (mm)	Weight
010020	LP-200	50 ~ 200	1.8kg
010021	LP-300	50 ~ 300	2kg

CARRYING CASE FOR LEVELNIC

Shock resistant aluminum case for Levelnic. Suitable for storage and carrying.



LV-CS3



LV-CM1

USE

- Carrying case for Levelnic
(Levelnic is a precision instrument, we recommend that you use a carrying case)

MATERIAL

- Body: Aluminum
- Inside: Urethane foam

FEATURES

- Applicable levelnic:
LV-CS3: DL-S4W series, DL-S3 series, DL-S2W series, DL-S2, DL-S1
LV-CM1: DL-m1 series, DL-m3 series
- Shock protection during transport

Order No.	Model No.	Dimensions (mm)	Weight
010025	LV-CS3	362 × 236 × 184	1.50kg
010026	LV-CM1	250 × 200 × 150	0.97kg

SOFTWARE FOR LEVELNIC

Software for Levelnic.
Simple operation and graphics for easy use and understanding.

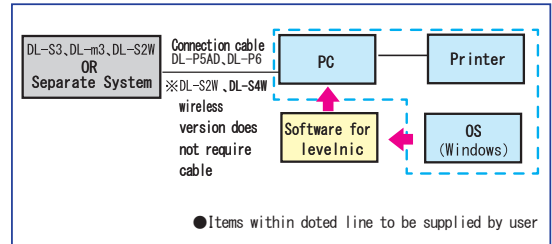
Straightness measurement computer software (ST) Flatness measurement computer software (FL)

- Greatly reduces measurement time by recording the results for straightness and flatness measurements
- For cabled and wireless system
- Supported OS: Windows XP, Vista, 7, 8, 10
- Direct input from DL-S4W series, DL-S3 series, DL-S3L, DL-S2W series, DL-S2+D3, DL-m3 series, DL-m3LS, and Separate System

Flatness measurement



Straightness measurement while connected to PC



No need to install the software to PC

Only drag and drop EXE file, and double click to start. Also can be used directly from USB memory.

Input selection

Data can be manually typed in from any level, including bubble tube type level

Input signal from Levelnic over RS-232C

With computer connected to the Levelnic output, sequential measurements taken at regular intervals can be used to calculate flatness and straightness for display, printing and storage. (saved measurement data can not be revised)

Input typed onto keyboard from bubble level for display, calculation and storage

Using a bubble level and keyboard to enter data, sequential measurement taken at regular intervals can be used for calculation, display and storage

Displacement measurements (μm) typed onto keyboard for display, calculation and storage

Measurement of displacement from a reference plane made with a linear gauge or dial indicator at regular intervals can be used in place of an electronic angle gauge (goniometer) and entered into keyboard for calculation, display and storage



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

LEVELNIC MEASUREMENT SOFTWARE



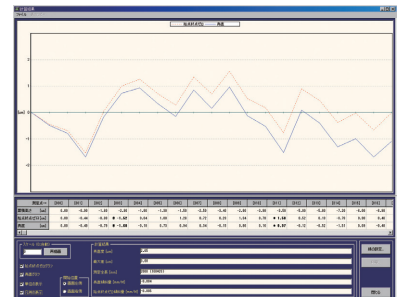
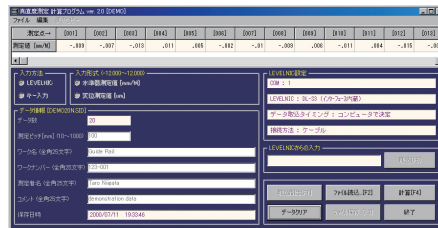
HOW TO MOVIE

Use to easily calculate straightness when connect to Levelnic with cable or wireless connection

Straightness software

With Straightness software Levelnic can easily perform the straightness measurements that once required an autocollimator, and for a lower cost

Straightness measurement



USE

- Software to perform straightness calculations

FEATURES

- Both wired and wireless capability
- Model compatibility: DL-S4W series, DL-S3 series, DL-S3L, DL-S2W series, DL-S2+D3, DL-m3 series, DL-m3LS
- ※Above compatibility applies for direct connection. Data can be manually typed in from any model, including bubble tube type level.

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10

Order No.	Model No.	Language
010066	ST	Japanese
010070	ST-E	English
010073	ST-C	Chinese



HOW TO MOVE

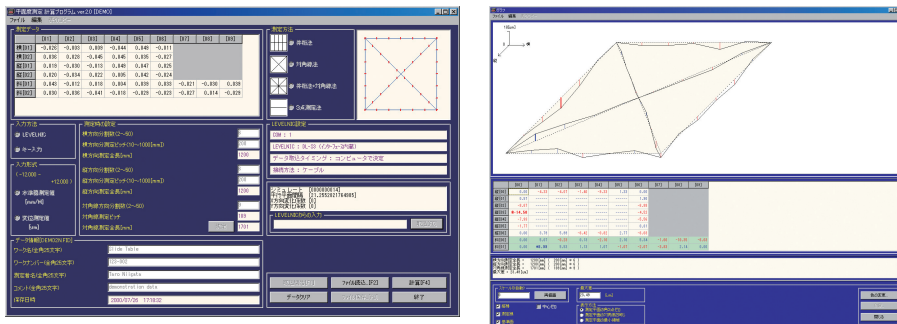
LEVELNIC MEASUREMENT SOFTWARE

Use to easily calculate flatness when connect to Levelnic with cable or wireless connection

Flatness software

With Flatness software Levelnic can easily perform the flatness measurements that once required an autocollimator, and for a lower cost

Flatness measurement



USE

- Software to perform flatness calculations

FEATURES

- Both wired and wireless capability
- Model compatibility: DL-S4W series, DL-S3 series, DL-S3L, DL-S2W series, DL-S2+D3, DL-m3 series, DL-m3LS
 - Above compatibility applies for direct connection. Data can be manually typed in from any model, including bubble tube type level.

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10

Order No.	Model No.	Language
010065	FL	Japanese
010069	FL-E	English
010072	FL-C	Chinese



LEVELNIC DATA RECORDING SOFTWARE

Data recording software LEVELOG

USE

- Records output data from Levelnic

FEATURES

- Levelnic measurements are recorded to text file
- Model compatibility: DL-S4W series, DL-S3 series, DL-S3L, DL-S2W series, DL-S2+D3, DL-m3 series, DL-m3LS

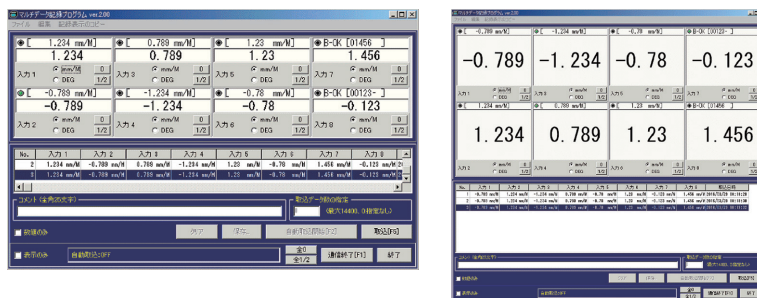
SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10

Order No.	Model No.	Language
010067	LEVELOG	Japanese
010068	LEVELOG-E	English

Data recording software LEVELOG-M

For data management of multiple use of Levelnic.
Display and record up to eight data channels.



USE

- For displaying measurement values on PC screen and loading its data into PC for up to eight units of Levelnic

FEATURES

- Loadable up to 14,400 data points which can be saved as plain text
- Selectable data loading - Manual loading / Auto-loading at set time interval
- Model compatibility: DL-S4W series, DL-S3 series, DL-S2W series, DL-S2+DL-D3, DL-m3 series

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10
- Computer requires COM port or USB port for each connected Levelnic

Order No.	Model No.	Language
010074	LEVELOG-M	Japanese
010075	LEVELOG-M-E	English

LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

PRECISION LEVEL (JIS CLASS A)



USE

- Bubble tube indicates horizontal and measures small inclinations
- Precision measurement for machine inspection and leveling

MATERIAL

- Special tool steel body (hardened)

FEATURES

- JIS B7510
- Lapped and polished base
- Provided with inspection report

SPECIFICATIONS

- Sensitivity: 0.02mm/m
- Accuracy of the main bubble Full range accuracy: Less than ± 0.5 graduation
Adjacent accuracy: Less than 0.2 graduation
- Parallelism between V groove and base: Within 0.5 graduation
- Parallelism on base: Within 0.003mm

Order No.	Model No.	Standard (mm)	Dimensions L × W × H (mm)	Weight
160001	FLA-150002	150	150 × 45 × 49	1.3kg
160002	FLA-200002	200	200 × 48 × 49	1.7kg
160003	FLA-250002	250	250 × 48 × 49	2.3kg
160004	FLA-300002	300	300 × 48 × 49	2.8kg



LEVELNIC

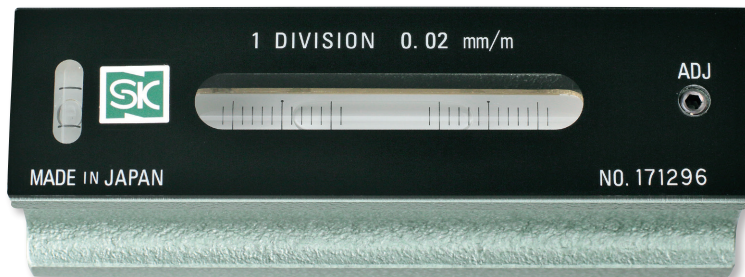
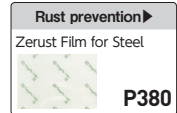
PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

GENERAL PURPOSE PRECISION LEVEL



USE

- Bubble tube indicates horizontal and measures small inclinations
- For machine installation and general mechanical assembly

MATERIAL

- Quality cast iron (FC250)

FEATURES

- Quality cast iron (FC250) with lapped finish to maintain precision

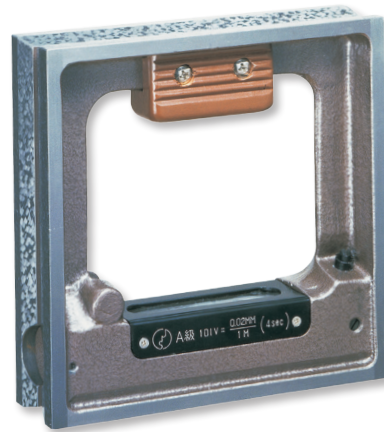
SPECIFICATIONS

- Sensitivity: 0.02mm/m
- Accuracy of the main bubble Full range accuracy: Less than ± 2 graduation

Order No.	Model No.	Standard (mm)	Dimensions L × W × H (mm)	Weight
160005	FLW-150002	150	150 × 48 × 47	1.3kg
160006	FLW-200002	200	200 × 48 × 47	1.7kg
160007	FLW-250002	250	250 × 48 × 47	2.3kg
160008	FLW-300002	300	300 × 48 × 47	2.8kg



SQUARE PRECISION LEVEL (JIS CLASS A)



USE

- Bubble tube indicates horizontal and measures small inclinations
- Precision measurement for machine inspection and leveling

MATERIAL

- Special tool steel body (hardened)

FEATURES

- JIS B7510
- Lapped and polished base
- Provided with inspection report

SPECIFICATIONS

- Sensitivity: 0.02mm/m
- Accuracy of the main bubble
 - Full range of the main bubble: Less than ± 0.5 graduation
 - Adjacent accuracy: Less than 0.2 graduation
- Perpendicularity of sides and bottom: Less than 0.015mm/m
- Parallelism of V groove and V grooved surface: Less than 0.5 graduation
- Parallelism of top and bottom: Less than 0.5 graduation
- Flatness of bottom and sides: Less than 0.003mm

Order No.	Model No.	Standard (mm)	Dimensions L × W × H (mm)	Weight
160009	SLA-150002	150	150 × 40 × 150	2.1kg
160010	SLA-200002	200	200 × 42 × 200	3.8kg
160011	SLA-250002	250	250 × 50 × 250	5.8kg
160012	SLA-300002	300	300 × 50 × 300	7.5kg



LEVELNIC

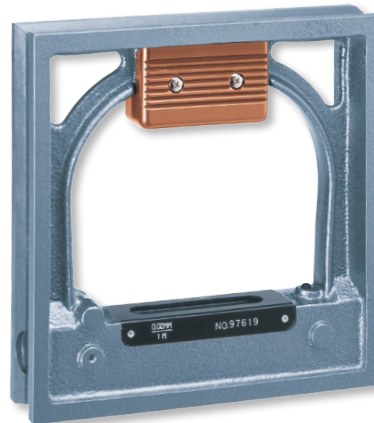
PRECISION
LEVEL

ANGLE

LEVEL

PROTRA
CTOR

GENERAL PURPOSE SQUARE PRECISION LEVEL



USE

- Bubble tube indicates horizontal and measures small inclinations
- Ideal for machine assembly and general purpose use

MATERIAL

- Quality cast iron (FC250)

FEATURES

- Quality cast iron (FC250) with lapped finish to maintain precision

SPECIFICATIONS

- Sensitivity: 0.02mm/m
- Accuracy of the main bubble Full range accuracy: Less than ± 2 graduation

Order No.	Model No.	Standard (mm)	Dimensions L × W × H (mm)	Weight
160013	SLW-150002	150	150 × 42 × 150	2.1kg
160014	SLW-200002	200	200 × 42 × 200	3.8kg
160015	SLW-250002	250	250 × 45 × 250	5.8kg
160016	SLW-300002	300	300 × 45 × 300	7.5kg

DIGITAL PROTRACTOR DP-10XY SERIES



HOW TO MOVE

This two-axis digital inclinometer takes measurements in X and Y direction at same time. With 0 cal., 1/2 cal. features, can also be used as a level.



Output from sensors can also be displayed or recorded on PC with dedicated software

USE

- Surface plate and machine tool angle of inclination measurement

MATERIAL

- Case: Aluminum
- Base: Aluminum alloy

FEATURES

- Simultaneously measures angle of inclination in X and Y directions making leveling tasks easier
- Display is switchable to show only X, only Y, or XY measurements
- 0-cal. and 1/2 cal. switches allow calibration at the touch of a button.
- In sensor mode, the measurement range is $\pm 9.998^\circ$ with minimum reading of 0.002° (0-cal. and 1/2 cal. can not be used in this mode). Measured value on angle sensor (built-in) is to be output and shown on PC.
- Back-light display
- Output from sensors can also be displayed and recorded on PC with dedicated software
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base

SPECIFICATIONS

Measuring Range	$\pm 9.99^\circ$
Minimum Reading	0.01°
Operating Temperature	0 ~ 40°C
Accuracy	$\pm 0.01^\circ$ (for measuring range less than $\pm 2^\circ$) $\pm 0.05^\circ$ (for measuring range greater than $\pm 2^\circ$)
Repeatability	$\pm 0.01^\circ$
XY Orthogonal Accuracy	1%
Response Time (measurement period)	Approx. 2.5s
Output Signal	Conforms to RS-232C ^{※1}
Power	AA battery 2pcs AC Adapter (DC3V output · AC100V ~ 240V)
Run Time (continuous use) ^{※2}	Alkaline cells: Approx. 10 hrs.
Dimensions	L88 × W85 × H73mm
Accessories	<ul style="list-style-type: none"> ● AC adapter (DC3V output · AC100V ~ 240V) ● AA cells 2pcs ● Shock resistant aluminum case ● PC connection cable DL-P6 ● Angle calculation software ● Warranty · Instruction manual · Inspection report

※1: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

※2: It may vary depending on measuring condition

Order No.	Model No.	Software language	Weight
010093	DP-10XY	Japanese	560g
010086	DP-10XY-E	English	560g

DIGITAL PROTRACTOR DP-10S • 10D SET SERIES



HOW TO MOVE

Wireless 2-axis digital angle gauge with remote display set.
Capable of simultaneous X and Y measurements.

SPECIFICATIONS

Model	Sensor: DP-10S Display: DP-10D
Measuring Range	± 9.99°
Minimum Reading	0.01°
Operating Temperature	0 ~ 40°C
Accuracy	± 0.01° (for measuring range less than ± 2°) ± 0.05° (for measuring range greater than ± 2°)
Wireless	Bluetooth Class 1*1
Communication Range	30 ~ 50m
Repeatability	± 0.01°
XY Orthogonal Accuracy	1%
Response Time (measurement period)	Approx. 2.5s
Output Signal	Conforms to RS-232C (DP-10D)*2
Power	2 x AA battery each / AC Adapter (DC3V output • AC100V ~ 240V) included
Run Time (continuous use) Alkaline cells	DP-10S: Approx. 10 hrs. (communicating) Approx 4 hrs. (waiting to communicate) DP-10D: Approx. 10 hrs.
Dimensions	DP-10S: L85 x W85 x H73mm DP-10D: L145 x W76 x H30mm
Weight (Including battery)	DP-10S: 540g DP-10D: 230g
Accessories	<ul style="list-style-type: none"> ● AC adapter (DC3V output • AC100V ~ 240V) x 2pcs ● AA battery x 4pcs ● Shock resistant aluminum case ● PC connection cable DL-P6 ● Angle calculation software ● Warranty • Instruction manual • Inspection report

*1: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)
*2: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Software language
010094	DP-10S • 10D/SET	Japanese
010087	DP-10S • 10D/SET-E	English



DP-10S



DP-10D

USE

- Surface plate and machine tool angle of inclination measurement

MATERIAL

- DP-10S...Case: Aluminum / Base: Aluminum alloy
- DP-10D...Case: ABS

FEATURES

- Simultaneously measures angle of inclination in X and Y directions making leveling tasks easier
- Display is switchable to show only X, only Y, or XY measurements
- 0-cal. and 1/2 cal. switches allow calibration at the touch of a button.
- In sensor mode, the measurement range is ±9.998° with minimum reading of 0.002° (0-cal. and 1/2 cal. can not be used in this mode)
- In sensor mode, the measurement range is ±9.998° with minimum reading of 0.002° (0-cal. and 1/2 cal. can not be used in this mode). Measured value on angle sensor (built-in) is to be output and shown on PC.
- Output from sensors can also be displayed and recorded on PC with dedicated software
- DP-10S has threaded screw holes (M5 x P0.8) at the bottom base for attaching custom-made base to the product



LEVELNIC

PRECISION

LEVEL

ANGLE

LEVEL

PROTRA
CTOR

DIGITAL LEVEL SENSOR DP-10M SERIES

Can be used as built in two-axis sensor for OEM equipment

USE

- Sensors for measurement and control of angle of inclination in machine tools, construction machinery, structures, etc.

MATERIAL

- Case: Aluminum

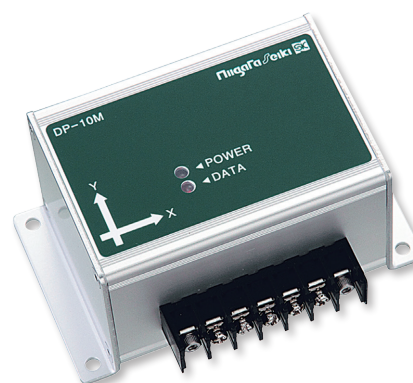
FEATURES

- Simultaneously measures angle of inclination in X and Y directions
- When power applied, angle of inclination is output via RS-232C signal (power and output connection via terminal block)
- Output from sensors can also be displayed or recorded on PC with dedicated software

SPECIFICATIONS

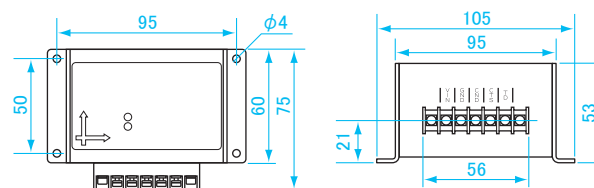
Measuring Range	± 9.998°
Minimum Reading	0.002°
Operating Temperature	0 ~ 40°C
Accuracy	± 0.01° (for measuring range less than ± 2°) ± 0.05° (for measuring range greater than ± 2°)
Repeatability	± 0.01°
XY Orthogonal Accuracy	1%
Response Time (measurement period)	Approx. 2.5s
Output Signal	Conforms to RS-232C*1
Power	DC9 to 15V (approx. 70mA)
Dimensions	L105 x W75 x H53mm
Accessories	<ul style="list-style-type: none"> ● Angle calculation software ● Warranty • Instruction manual ● Spade terminal (Y type) 5 pcs

*1: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)



● DIMENSIONS

Units: mm



Order No.	Model No.	Software language	Weight
010096	DP-10M	Japanese	270g
010088	DP-10M-E	English	270g

DIGITAL PROTRACTOR DP-50



Digital angle measurement. High precision measurement & quick measurement time.

USE

- For angle of tilt measurement

MATERIAL

- Body: Aluminum

FEATURES

- Digital inclinometer is useful tool for every site
- Slit encoder ensures accuracy and stability
- Zero setting not required
- Zero setting function
- Display hold function
- Measuring face: V grooved (2 sides)
- Magnetic vertical measuring face
- Display unit: DEG



SPECIFICATIONS

Measuring Range	± 50°
Minimum Reading	0.1°
Accuracy	± 0.1° (0 ~ 50°)
Repeatability	± 0.1°
Operating Temperature	0 ~ 50°C
Display Units	DEG
Dimensions	L141 × W47 × H109mm (excluding protrusions)
M5 Mounting Holes	Screw hole spacing: 80mm (distance from end to screw hole: 11mm)
Power Source	9V dry cell 1pc
Run Time (continuous use)	Alkaline dry cell: Approx. 15 hrs. ※ May vary depending upon measurement conditions
Accessories	● Soft case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

LEVELNIC

Order No.	Model No.	Weight
010091	DP-50	950g

PRECISION LEVEL

ANGLE

DIGITAL PROTRACTOR DP-90G



Digital angle measurement. High precision & quick measurement time.

USE

- For inclination measurement

MATERIAL

- Body: Aluminum

FEATURES

- Digital inclinometer with wide range of measurement (90°)
- Display reverses automatically when turned upside down
- Display option: DEG, mm/m, % slope
- Notification tones for 0°, 90° and for 0%, 0mm/m
- With backlight (auto light off after approx. 1 min.)
- Display hold function
- Measuring surface: V grooved, with magnet
- Auto power off function (after approx. 6 min.)



SPECIFICATIONS

Measuring Range	± 90°
Minimum Reading	Degree display: 0.05° Percent display: 0.1% Gradient: 1mm/m
Accuracy	0.0° ~ 90.0° = ± 0.2°
Operating Temperature	0 ~ 50°C
Display Setting Time	Approx. 10 sec.
Power Source	9V dry cell 1pc
Dimensions	L173 × W47 × H68mm (excluding protrusions)
Accessories	● Soft case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

LEVEL

PROTRACTOR

Order No.	Model No.	Weight
010097	DP-90G	550g

DIGITAL PROTRACTOR DP-30XY



Two axis -- can measure X and Y directions at the same time.
Large, color LCD display with touch-panel.

USE

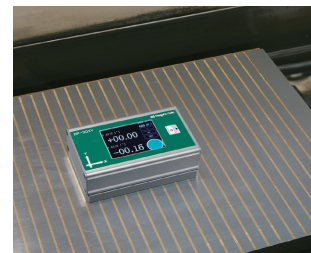
- Digital inclinometer for precision angle measurement and working reference for assemble of machinery, tooling, jigs, etc.

MATERIAL

- Case: Aluminum
- Base: Aluminum alloy (with magnet)

FEATURES

- Touch-panel color LCD
- Display unit [° (degree)], [mm/m] switchable
- Auto power off, auto display off function
- Zero position can be set at any angle



SPECIFICATIONS

Measuring Range	± 30°
Minimum Reading	0.01° (0.1mm/m) switchable
Operating Temperature	0 ~ 40°C
Accuracy	± 0.05° (at 20°C) ※ Temperature dependent factor of 0.015%/°C Example: At 25° C temperature, for measured angle of 12° (25-20) × 12 × 0.015 × 0.01+0.05 = 0.059 Readout Accuracy: ± 0.06° (decimal rounded up)
XY Orthogonal Accuracy	1%
Power Supply	Lithium-ion battery
Run Time (continuous use)	Approx. 5 hrs. ※ Slight variation depending on measurement conditions
External Dimensions	Approx. L124 × W75 × H40mm
Accessories	● USB cable (for charging) ● AC adapter (for charging) ● Warranty · Instruction manual · Inspection report

Order No.	Model No.	Weight
010095	DP-30XY	620g

CONNECTING CABLE



Measured value can be transferred to Microsoft Excel, Memo and other software.
A set of a PC cable and software for DP-30XY.
Auto-loading is available at a specific interval (every 0.1 ~ 60min.).



Software (included)

USE

- To transfer measured value by Levelnic DP-30XY to PC

FEATURES

- Data transferred on Microsoft Excel, Memo and other software can be edited as you wish
- Transferring value at a specific interval (0.1~60min) is possible

APPLICABLE OS

- Windows XP, Vista, 7, 8.1, 10

※ If your PC does not have D-SUB9 pin port, please purchase USB-Serial transmitter

Order No.	Model No.	Applicable product	Type of connector on PC	Length of cable
010039	DP-C	DP-30XY	D-SUB9 pin (female) (RS-232C)	Approx. 2m

LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

BEVEL BOX BB-180



Compact design digital inclinometer



USE

- For all processes that require precise angle measurement, such as assembly, molding, machining and fixtures

MATERIAL

- Aluminum frame, Plastic face/back, magnet on base

FEATURES

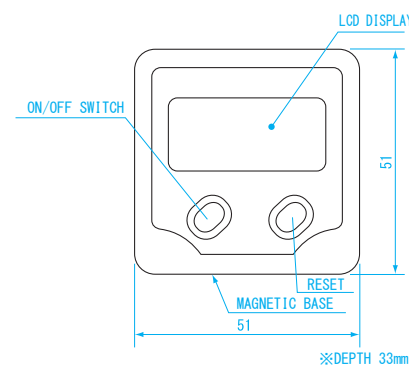
- Zero-setting at desired position
- Auto power off function (after approx. 5 min.)

POWER

- One CR2032 (Lithium) battery included for testing

● DIMENSIONS

Units: mm



※ Quantization Error (± 1 digit) not included

Order No.	Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy*	Repeatability	Weight
010101	BB-180	± 180.0°	0.1°	5 ~ 45°C	± 0.2°	0.1°	120g

BEVEL BOX BB-180A



Compact design digital inclinometer

Absolute measurement mode stores true horizontal



USE

- For all processes that require precise angle measurement, such as assembly, molding, machining and fixtures

MATERIAL

- Body: Aluminum (with magnet on base)

FEATURES

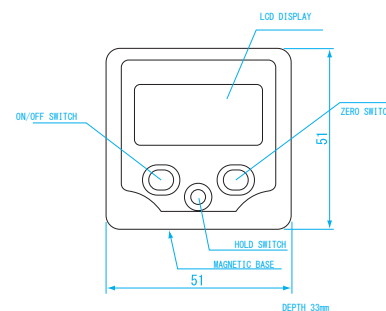
- Zero setting at desired position
- Absolute measurement mode stores true horizontal
- "Hold" button to fix reading on display
- Auto power off function (after approx. 5 min.)

POWER

- One CR2032 (Lithium) battery included for testing

● DIMENSIONS

Units: mm



※ Quantization Error (± 1 digit) not included

Order No.	Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy*	Repeatability	Weight
010102	BB-180A	± 180.0°	0.1°	5 ~ 45°C	± 0.2°	0.1°	170g

BEVEL BOX BB-180L



Compact design digital inclinometer

Large LCD with backlight for easy reading in a dark place



USE

- For all processes that requires precise angle measurement, such as assembly, molding, machining and fixtures

MATERIAL

- Body: Aluminum (with magnet on base)

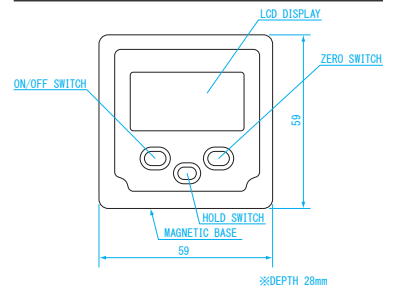
FEATURES

- Zero setting at desired position
- Large LCD with backlight for easy reading in a dark place
- "Hold" button to fix reading on display
- Auto power off function (after approx. 5 min.)

POWER

- One AAA battery (NOT included in the package)

● DIMENSIONS Units: mm



※ Quantization Error (± 1 digit) not included

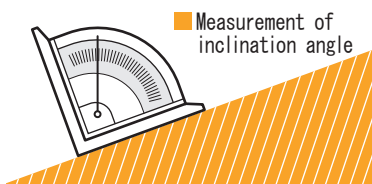
Order No.	Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy [※]	Repeatability	Weight
010103	BB-180L	± 180.0°	0.1°	5 ~ 45°	± 0.2°	0.1°	70g



LEVEL METER KAIDAN



New stepped millimeter graduations prevents misreading.
Analog inclinometer with magnetic base.



USE

- Measurement of inclination angle

MATERIAL

- Body: AS resin ● Cover: Acrylic resin

FEATURES

- Analog dial easier to read than bubble tube type meter
- Stepped length of linear graduations by 1mm for easy-to-read
- Lightweight and handy
- With magnetic base

SPECIFICATIONS

- Measurement range: 0~90°
- Graduation: 1°
- Accuracy: ±0.5°



Order No.	Model No.	Product Type	Magnetic Attraction (Reference Value)	Dimensions H × W × T (mm)	Weight
011012	LM-90KDS	Strong magnet type	40N	95 × 95 × 30	100g
011013	LM-90KD	Regular magnet type	10N	95 × 95 × 30	120g

LEVEL MATE



Analog inclinometer with magnet on right vertical surface



USE

- Tilt angle measurement

MATERIAL

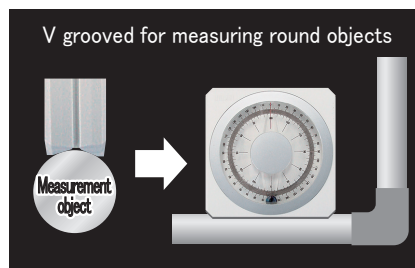
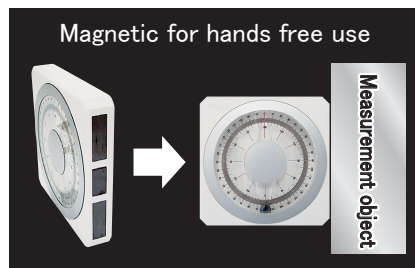
- Plastic

FEATURES

- Setting angles for machine work
- Mechanical assembly, installation
- Miscellaneous plumbing work
- Construction and related work
- V grooved on bottom, magnet on vertical surface

SPECIFICATIONS

- Measuring range: 0~360°
- Minimum reading: 1°
- Accuracy: ±0.5°



Order No.	Model No.	Dimensions H × W × T (mm)	Weight
011030	LM-360	110 × 110 × 20	140g

LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR



DIAL SLANT RULE KAIDAN



Analog angle meter with new stepped millimeter graduations that prevents misreading



DSR-180KD



DSRM-180KD
(with magnet)

USE

- Inclination angle measurement

MATERIAL

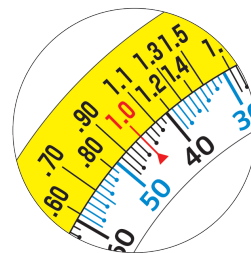
- Body: ABS ● Cover: Styrol

FEATURES

- Easier to read compared to bubble level
- Kaidan style graduation for easy reading
- Lightweight and handy ● With handle and hook hole

SPECIFICATIONS

- Measuring range: 0~180° ● Graduation: 1°
- Accuracy: ±0.5°



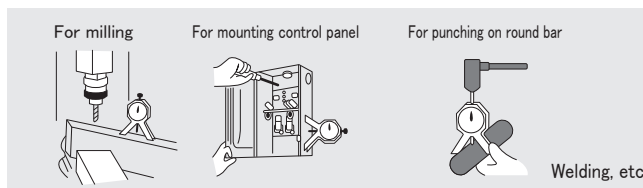
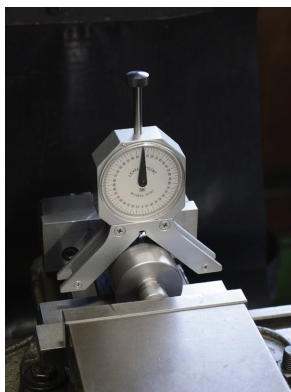
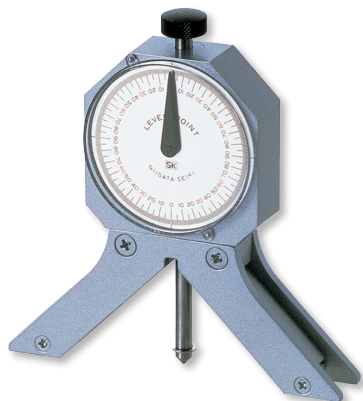
Dual scales for Angle & Inclination measurement

Order No.	Model No.	Type	Magnetic Attraction (Reference Value)	Dimensions L × H × W (mm)	Weight
011002	DSR-180KD	-	-	182 × 92 × 20	110g
011003	DSRM-180KD	with magnet	8N	182 × 92 × 20	112g



LEVEL POINT GAUGE

Tilt angle measuring and punching can be done at once



USE

- For measuring tilt angle and punching on round bar

MATERIAL

- Body: Aluminum ● Leg: Steel

FEATURES

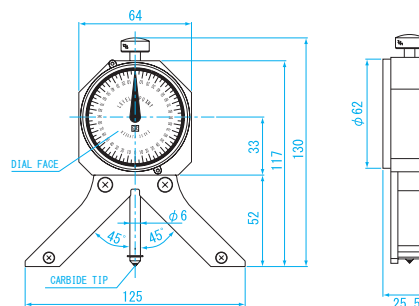
- Single touch for direct angle reading
- Can quickly and accurately measure any angle from horizontal to vertical
- Punch end is carbide tipped
- Magnetic feet

SPECIFICATIONS

- Measuring range: 0~360° ● Minimum reading: 1°
- Within 1° ● Applicable diameter for V base: $\phi 20 \sim 100\text{mm}$

● DIMENSIONS

Units: mm



Order No.	Model No.	Dimensions H × W × T (mm)	Weight
011022	LP-360	130 × 125 × 25	400g

ALUMINUM BUBBLE LEVEL / ALUMINUM BUBBLE LEVEL WITH MAGNET



High quality bubble tube that is Made-in-Japan
Magnet attached on measuring face (ALM series)

USE

- To measure horizontal and vertical

MATERIAL

- ALUMINUM

FEATURES

- High quality bubble tube that is Made-in-Japan
- V-grooved on measuring face that works great on spherical objects ● Graduation at 1/100, 2/100 inclination value
- Bubble tube for horizontal magnifies for easy reading
- Magnet attached on measuring face (ALM series) ● Scale graduation on both sides

SPECIFICATIONS

- Horizontal bubble tube ... Sensitivity: $0.35\text{mm/m} = 0.0201^\circ$ Accuracy: $\pm 1.00\text{mm/m} = \pm 0.0573^\circ$
- Vertical · 45° bubble tube ... Sensitivity: $0.50\text{mm/m} = 0.0286^\circ$ Accuracy: $\pm 1.50\text{mm/m} = 0.0859^\circ$

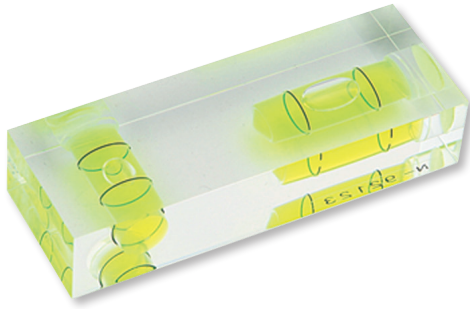


ALM-600

Order No.	Model No.	Type	Bubble tube	Length (mm)	Height (mm)	Thickness (mm)	Weight
111212	ALS-300	-	Horizontal · Verical · 45°	300	56	25	194g
111213	ALS-380			380			234g
111214	ALS-450			450			270g
111215	ALS-600			600			345g
111216	ALS-900			900			492g
111200	ALM-150	With magnet	Horizontal	150	56	25	164g
111201	ALM-230		Horizontal · Verical	230			220g
111202	ALM-300		Horizontal · Verical · 45°	300			340g
111203	ALM-380			380			380g
111204	ALM-450			450			410g
111205	ALM-600		600	500g			

LEVELNIC
PRECISION LEVEL
ANGLE
LEVEL
PROTRACTOR

BUBBLE LEVEL



CT-70



CR-24



S-90



T-100



F-90

USE

- Horizontal measurement for construction, installation, and leveling machinery

MATERIAL

- Acrylic resin, aluminum, cast iron



Sensitivity is a gradient when the bubble starts moving.
Accuracy means that a measured value is at variance within the range of [±accuracy value].

Order No.	Model No.	Type	Length (mm)	Height (mm)	Thickness (mm)	Sensitivity (mm/m)	Accuracy (mm/m)	Weight
011070	CT-70	Acrylic resin / Cross	70	25	15	0.5	± 1.5	29g
011072	CR-24	Acrylic resin / Round	∅ 24	-	10		± 2.5	4g
011081	S-65	Aluminum / Straight	65	20	14		± 1.5	33g
011082	S-90	Aluminum / Straight	90	20	14		45g	
011083	T-50	Aluminum / Flat	50	30	15		49g	
011084	T-100	Aluminum / Flat	100	30	15	105g		
011085	F-90	Cast iron	90	20	30	165g		



LEVELNIC

PRECISION LEVEL

ANGLE

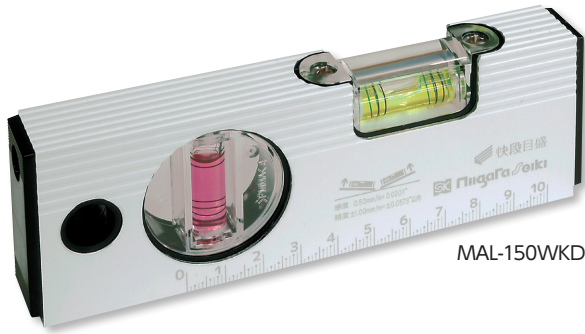
LEVEL

PROTRACTOR



ALUMINUM BUBBLE LEVEL WITH STRONG MAGNET K Aidan

Super strong neodymium magnet at the measuring surface.
Reliable Made-in-Japan quality.



MAL-150WKD



MAL-150BKD

USE

- To measure horizontal and vertical

MATERIAL

- Body: aluminum

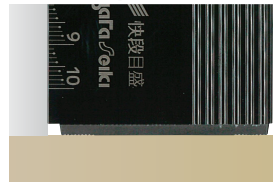
FEATURES

- Super strong neodymium magnet on the measuring surface
- Flat side protector for stable measurement upright
- Easy to distinguish by two different colors for horizontal and vertical tubes
- Luminous tape under bubble tube that is useful in dark
- V grooved on measuring face that works great on spherical objects
- With Kaidan style graduation

SPECIFICATIONS

- Bubble tube sensitivity: $0.50\text{mm/m} = 0.0286^\circ$
- Accuracy: Less than $\pm 1.00\text{mm/m} = \pm 0.573$

Flat side protector



Flat side protector for stable measurement upright

2 different colors of bubble tubes



Easy-to-distinguish by 2 different colors of vertical tube and horizontal tube

V grooved on measuring face



Suitable for spherical objects such as pipe

Three times as strong as our other levels



Super strong neodymium magnet at the measuring surface. Suitable for steel work and plant work.

Order No.	Model No.	Color	Bubble tube type	Length (mm)	Height (mm)	Thickness (mm)	Weight
111353	MAL-150WKD	White	Horizontal · Vertical	150	50	20	150g
111354	MAL-150BKD	Black	Horizontal · Vertical	150	50	20	150g



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

SUPER STRONG MAGNETIC BUBBLE LEVEL



Twice as strong as our other magnetic levels

USE

- Horizontal, vertical, and 45° measurements

MATERIAL

- Plastic

FEATURES

- Magnetic measuring surface (attraction force: 118N)
- V grooved measuring surface for convenient measurement on round objects

SPECIFICATIONS

- Bubble tube sensitivity: $0.50\text{mm/m} = 0.0286^\circ$
- Vial accuracy: Within $\pm 1.50\text{mm/m} = \pm 0.0859^\circ$
- 4-line acrylic bubble tube with phosphorescent tape. 360° acrylic spot level (ML-100KB · ML-100KW).



ML-150KW



ML-100KB

Order No.	Model No.	Color	Bubble tube type	Length (mm)	Height (mm)	Thickness (mm)	Weight
111218	ML-100KB	Black	Horizontal · Vertical	100	47	20	80g
111219	ML-100KW	White	Horizontal · Vertical	100			80g
111220	ML-150KB	Black	Horizontal · Vertical · 45°	150	47	20	110g
111221	ML-150KW	White	Horizontal · Vertical · 45°				



PROTRACTOR K AidAN No.19



Easy-to-read by newly and originally designed blade and graduation



USE

- Angle measurement

MATERIAL

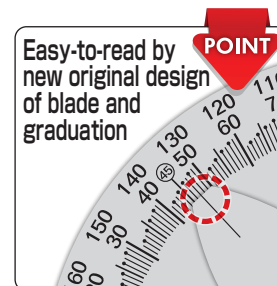
- Stainless steel

FEATURES

- Easy-to-read by Kaidan style graduation plus blade designed not to hide graduation

SPECIFICATIONS

- Protractor size $\phi 90\text{mm} \times (\text{T}) 1.2\text{mm}$
- Blade size $\phi 90\text{mm} \times (\text{T}) 1.2\text{mm}$
- Blade 10cm ruler



Order No.	Model No.	Maximum angle	Graduation	Accuracy	Weight
008006	PRT-19KD	180°	1°	± 20'	60g

LEVELNIC



PROTRACTOR K AidAN No.30



New original design of graduation



USE

- Angle measurement

MATERIAL

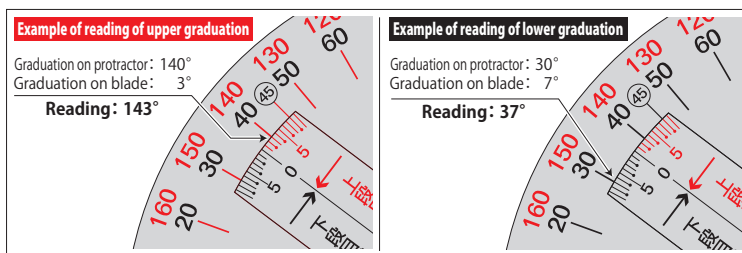
- Stainless steel

FEATURES

- Reading: Total of degree on protractor (10° unit) and matched degree on blade (1° unit)

SPECIFICATIONS

- Protractor size $\phi 120\text{mm} \times (\text{T}) 1.5\text{mm}$
- Blade size $\phi 240\text{mm} \times (\text{T}) 1.5\text{mm}$
- Blade 10cm ruler



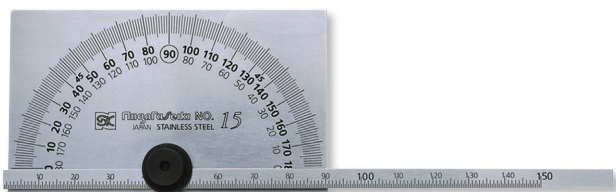
Order No.	Model No.	Maximum angle	Graduation	Accuracy	Weight
008031	PRT-30KD	180°	1°	± 20'	117g

PROTRACTOR No.15



HOW TO MOVE

With sliding graduated blade



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- With rectangle head
- The blade is firmly set on the center of the protractor by a knurled nut and adjustable to any desired angle for use as a protractor
- Also can measure depth

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Protractor size: (H)52mm × (W)90mm × (T)1.2mm
- Blade size: (L)177mm × (T)1.2mm
150mm ruler (graduation: 0.5mm)

Order No.	Model No.	Weight
008000	PRT-15	80g

PROTRACTOR No.19



HOW TO MOVE

No.19 polished finish with graduated blade



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Polished finish

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Protractor size: $\phi 90\text{mm} \times (T)1.2\text{mm}$
- Blade size: (L)204mm × (T)1.2mm
100mm ruler (graduation: 1mm)

For angle measurement



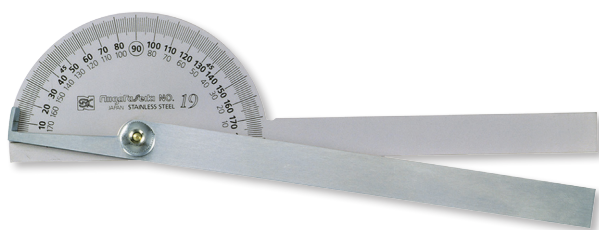
Order No.	Model No.	Weight
008001	PRT-19	81g

PROTRACTOR No.19



HOW TO MOVE

No.19 with two blades



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- With two blades
- Satin finish
- Can measure acute angle down to 10°

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Size: $\phi 90\text{mm} \times (T)1.2\text{mm}$
- Blade size: (L)204 × (T)1.2mm

Order No.	Model No.	Weight
008002	PRT-19SW	110g

PROTRACTOR No.19



HOW TO MOVE

No.19 satin finish with graduated blade



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Satin finish

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Size: $\phi 90\text{mm} \times (T)1.2\text{mm}$
- Blade size: (L)204mm × (T)1.2mm
100mm ruler (graduation: 1mm)

Order No.	Model No.	Weight
008003	PRT-19S	81g

LEVELIC

PRECISION LEVEL

ANGLE

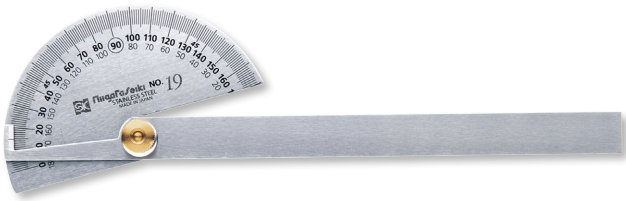
LEVEL

PROTRACTOR

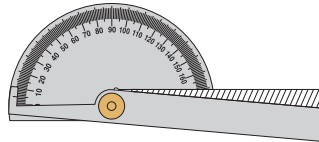
PROTRACTOR No.19A



Cut out protractor suitable for acute angle measurement



● Example of use



Measurement of acute angle

USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Polished finish
- Cutout for measuring small angle

SPECIFICATIONS

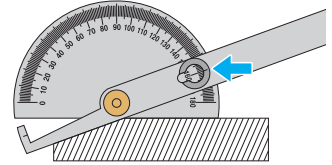
- Graduation: 1°
- Maximum angle: 90°
- Accuracy: ±20'
- Protractor size: φ90mm × (T) 1.2mm
- Blade: (L) 204mm × (T) 1.2mm

Order No.	Model No.	Weight
008004	PRT-19A	90g

PROTRACTOR No.19B



● Example of use



Window with the baseline for easier scale reading

USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Polished finish
- Protractor blade contains stop for setting a baseline angle and measuring against that set point

SPECIFICATIONS

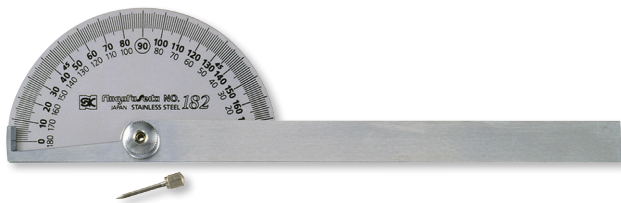
- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Protractor size: φ90mm × (T) 1.2mm
- Blade: (L) 204mm × (T) 1.2mm

Order No.	Model No.	Weight
008005	PRT-19B	90g

PROTRACTOR No.182



With a needle in the lock nut for marking



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

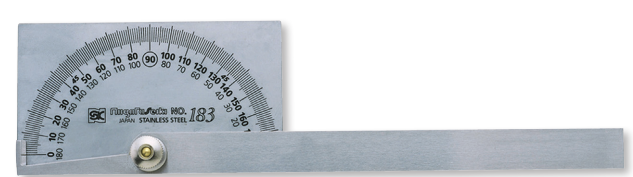
- Satin finish
- Center lock nut has a built in needle for marking center point

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Protractor size: φ90mm × (T) 1.2mm
- Blade: (L) 204mm × (T) 1.2mm

Order No.	Model No.	Weight
008182	PRT-182S	155g

PROTRACTOR No.183



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- With rectangle head
- Satin finish

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Protractor size: (H) 52mm × (W) 90mm × (T) 1.2mm
- Blade: (L) 204mm × (T) 1.2mm

Order No.	Model No.	Weight
008183	PRT-183S	90g

PROTRACTOR No.30

Recommended for plate working



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Angle measurement
- Satin finish
- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±15'
- Protractor size: $\phi 120\text{mm} \times$ Thickness 1.5mm
- Blade size: (L)315mm \times (T)1.5mm

Order No.	Model No.	Weight
008030	PRT-30S	190g



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

PROTRACTOR No.101

Recommended for plate working.
Fixable and graduated blade.



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Satin finish
- Blade can be fixed. Ideal for work requiring high accuracy.

SPECIFICATIONS

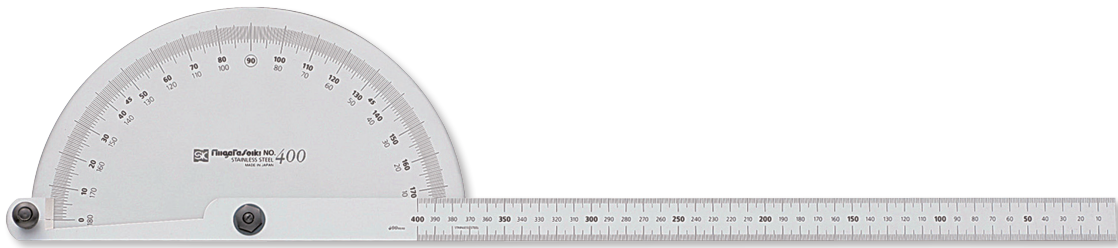
- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±15'
- Protractor size: $\phi 120\text{mm} \times$ (T)1.5mm
- Blade size: 304mm \times (T)1.5mm

Order No.	Model No.	Weight
008101	PRT-101S	158g

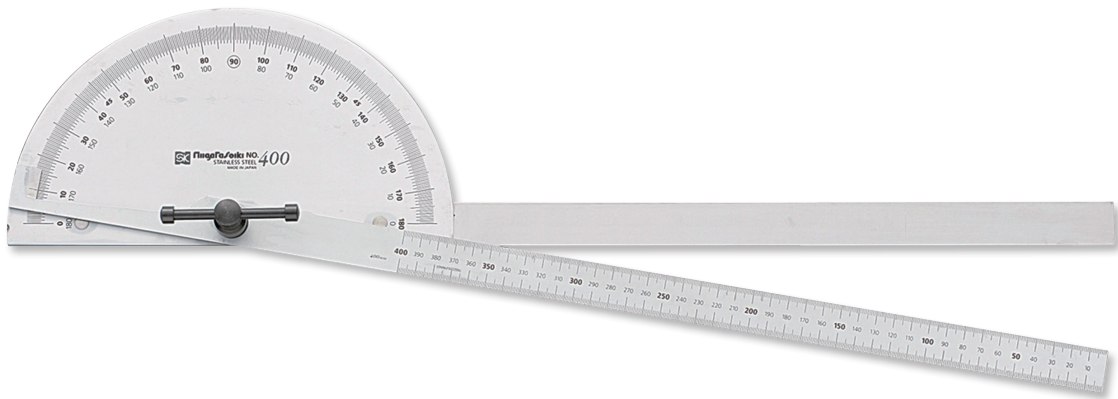
PROTRACTOR No.300 • No.400 • No.600 • No.1000



Large size protractor.
Please choose a suitable model based on your work size.



PRT-400S



PRT-400SW

USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Satin finish
- With T-handle lock nut (PRT-300SW, PRT-400SW)

SPECIFICATIONS

- Graduation: 0.5°
- Maximum angle: 180°
- Accuracy: ±15'

Order No.	Model No.	Size	Diameter (mm)	Thickness (mm)	Number of blade	Blade Length (mm)	Blade Thickness (mm)	Graduation on Blade	Weight
008300	PRT-300S	300mm	210	2.0	1	500	2.0	300mm (1mm step)	610g
008400	PRT-400S	400mm	250	2.0		634	2.0	400mm (1mm step)	700g
008600	PRT-600S	600mm	320	2.5		823	2.5	600mm (1mm step)	1.6kg
008700	PRT-1000S	1000mm	320	2.5		1260	2.5	1000mm (1mm step)	2kg
008302	PRT-300SW	300mm	210	2.0	2	500	2.0	300mm (1mm step)	670g
008402	PRT-400SW	400mm	250	2.0		634	2.0	400mm (1mm step)	1.1kg
008602	PRT-600SW	600mm	320	3.2		823	2.5	600mm (1mm step)	2.45kg
008702	PRT-1000SW	1000mm	320	3.2		1260	2.5	1000mm (1mm step)	3.15kg

PROTRACTOR No.192



To be attached onto machines and jigs



PRT192-120S

USE

- Angle measurement to be attached onto machines and jigs

MATERIAL

- Stainless steel

FEATURES

- Polished finish: PRT192-90S
- Satin finish: PRT192-120S · PRT192-200S · PRT192-250S · PRT192-300S

Order No.	Model No.	Graduation	Maximum Angle	Diameter (mm)	Thickness (mm)	Accuracy	Weight
008901	PRT192-90S	1°	180°	90	1.2	±20'	40g
008903	PRT192-120S			120	1.5		80g
008930	PRT192-200S	0.5°	180°	210	2.0	±15'	310g
008940	PRT192-250S			250	2.0		440g
008960	PRT192-300S			320	2.5		870g



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

PROTRACTOR No.192-S2



To be attached onto machines and jigs



PRT192-200S2

USE

- Angle measurement to be attached onto machines and jigs

MATERIAL

- Stainless steel

FEATURES

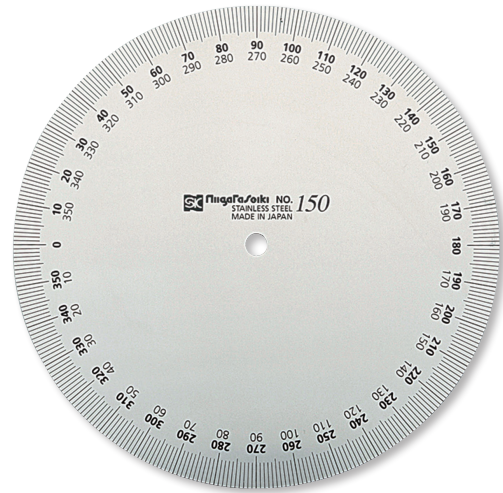
- Satin finish

Order No.	Model No.	Graduation	Maximum angle	Diameter (mm)	Thickness (mm)	Accuracy	Weight
008911	PRT192-90S2	1°	180°	90	1.2	±20'	40g
008912	PRT192-120S2			120	1.5		80g
008913	PRT192-200S2	0.5°	180°	210	2.0	±15'	310g
008914	PRT192-250S2			250	2.0		440g
008915	PRT192-300S2			320	2.5		870g

PROTRACTOR No.193



To be attached onto machines and jigs



PRT193-150

USE

- Angle measurement to be attached onto machines and jigs

MATERIAL

- Stainless steel

FEATURES

- A circle plate protractor
- Satin finish

Order No.	Model No.	Graduation	Maximum angle	Diameter (mm)	Thickness (mm)	Accuracy	Weight
009109	PRT193-90	1°	360°	90	1.2	±20'	60g
009112	PRT193-120			120	1.5		140g
009115	PRT193-150			150	1.5		210g
009120	PRT193-200			200	2.0		510g
009125	PRT193-250			250	2.0		780g
009130	PRT193-300			300	2.5		1.38kg



LEVELNIC

PRECISION LEVEL

ANGLE

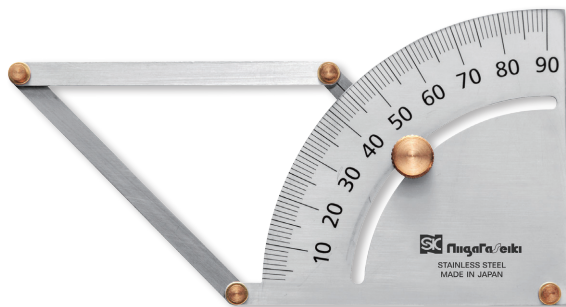
LEVEL

PROTRACTOR

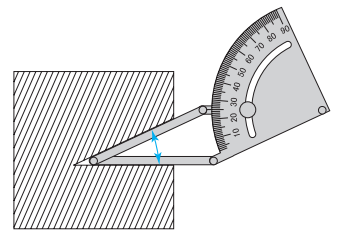
INSIDE PROTRACTOR



Measure interior angles in one step.
Measurements at a glance.



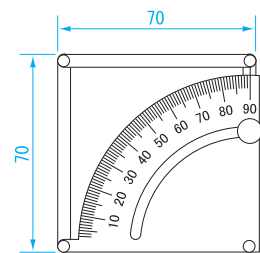
● Example of use



Measurement of interior angles

● DIMENSIONS

Units: mm



USE

- Measurement of interior angles

MATERIAL

- Stainless steel

FEATURES

- Measure interior angles at a glance
- Silver matte finish for better legibility
- With plastic case for convenient carrying

Order No.	Model No.	Graduation	Angle measurement range	Accuracy	Weight
007517	IP-90	1°	10°~90°	±0.5°	43g

ANGLE GAUGE



Specialized for angle measurement of grooves with minimum reading 0.5°

USE

- Butt angle measurement and gap angle measurement

MATERIAL

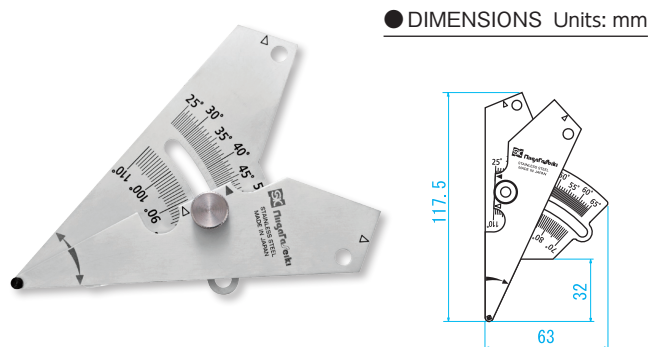
- Stainless steel

FEATURES

- Measurement of butt joint gap angle
- Sharpened tip enables measurement for root gap of 0mm, or when sheet thickness is less than 15mm
- Minimum reading 0.5°, large graduation for easy reading
- T-joint gap angle can be measured avoiding weld buildup
- Non-reflective satin finish for better legibility
- Solid and convenient carrying (provided with plastic carrying case)

SPECIFICATIONS

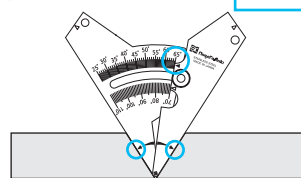
- Bevel angle: 25~65° (minimum graduation: 0.5°)
- Angle of cross weld part: 70~110°



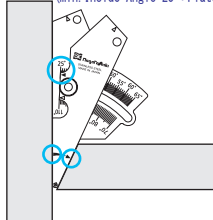
Example use

Example 1) Butt joint gap angle measurement (max. inside angle 65° : plate thickness :30mm)

How to read the value Examples 1) & 2)
Angle between ◀ marks indicated at ▶

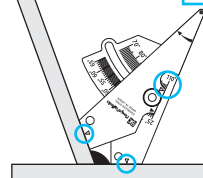


Example 2) T-joint gap angle measurement (min. Inside Angle 25° : Plate Thickness : 30mm)

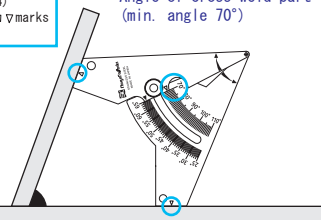


Example 3) Angle of cross weld part (max. angle 110°)

How to read the value Examples 3) & 4)
Angle between ◀▽ marks indicated at ▶



Example 4) Angle of cross weld part (min. angle 70°)



SPECIFICATIONS

Order No.	Model No.	Accuracy	Weight
007518	WGA-65	± 0.5°	73.5g



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

ANGLE PROTRACTOR



Specialized for angle measurement. Three measurement points enable multiple angle measurements.

USE

- Measuring angles for sheet metal bending, welding flanges and butt joints, openings and bevels, scissors plates, etc.

MATERIAL

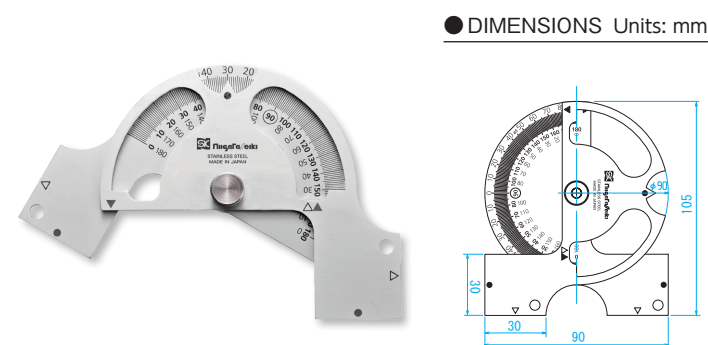
- Stainless steel

FEATURES

- Enables a wide range of angle measurements before and after welding process
- Direct measurement can be done without interference from swelling or weld bead
- Can measure sheet metal bends and outside angle measurements
- Non-reflective satin finish for better legibility
- Solid and convenient carrying (provided with plastic case)

SPECIFICATIONS

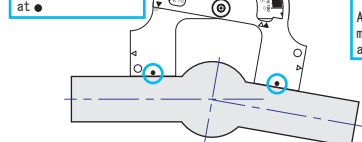
- Bevel angle: Scissors angle 30~130° (minimum graduation: 1°)
- Bending angle and angle of butt weld joint: 0~90°
- Stud and beam angle after welding: 0~180°



Example use

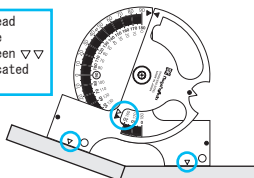
Example 1) Angle measurement of bent butt weld (0~90° : example indicates 10°)

How to read the value
Angle between ●● marks indicated at ●



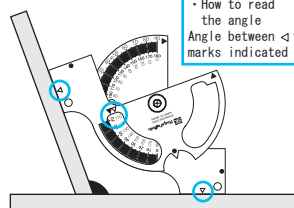
Example 2) Angle measurement of bent Flange and metal plate (0~180° : example indicates 20°)

How to read the value
Angle between ▽▽ marks indicated at ▸



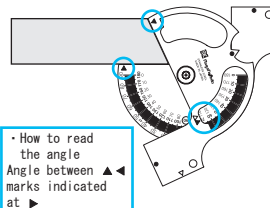
Example 3) Angle of cross weld part (0~180° : example indicates 110°)

How to read the angle
Angle between ◀▽ marks indicated at ▸



Example 4) Plate bevel angle (30~130° : example indicates 65°)

How to read the angle
Angle between ▲ marks indicated at ▶



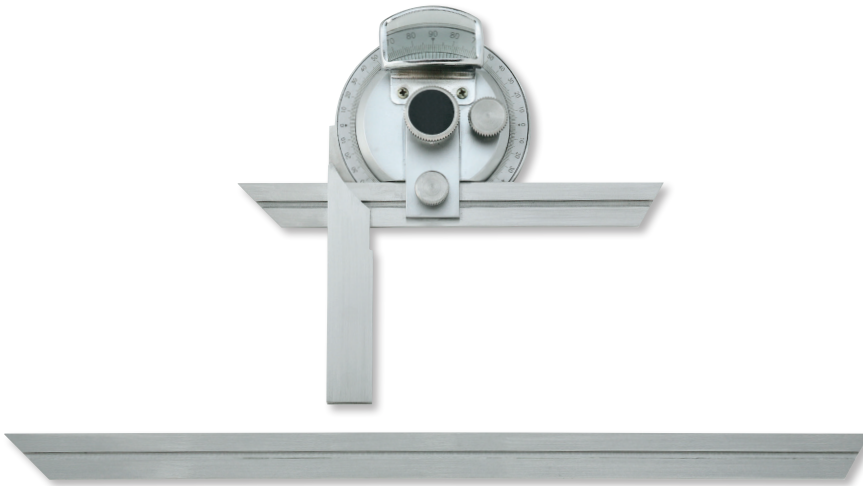
SPECIFICATIONS

Order No.	Model No.	Accuracy of angle	Weight
007519	AP-130	± 0.5°	100g

UNIVERSAL BEVEL PROTRACTOR

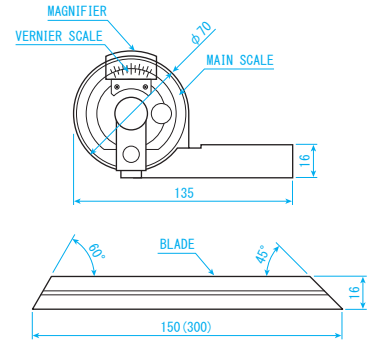


High precision and measurable 360°



● DIMENSIONS

Unit: mm



USE

- Precise angle measurement for tooling and fixture, assembly, machining, mold making, and for use as a standard

MATERIAL

- Steel

FEATURES

- Precise angle measuring instrument that can set at any angle
- Reading minimum of 5' by vernier
- Magnifier is attached for accurate reading

SPECIFICATIONS

- Graduation 1° through 360°
- Minimum reading: 5' (=1/12°)
- Blade accuracy: Straightness · parallelism 0.01 mm

ACCESSORIES

- Blade 150mm, 300mm



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

Order No.	Model No.	Weight
151154	495DA	215g