



ANGLE

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HIGH PRECISION LEVEL LEVELNIC SERIES/ DIGITAL PROTRACTOR WITH DATA OUTPUT FUNCTION

△ : Available with restrictions on unit functions — : Not supported or other options are available

Product image												
Product name • Model No.			LEVELNIC DL-SXY	LEVELNIC DL-SXYW-S	LEVELNIC DL-SXYW-S (HID)	LEVELNIC DL-mXY	LEVELNIC DL-S4W Series	LEVELNIC DL-S4W (HID)	LEVELNIC DL-S3 Series	LEVELNIC L-TYPE DL-S3L	LEVELNIC EL-01A Series	LEVELNIC DL-S2W Series
Reference page			122	123	123	124	125	125	126	127	127	128
Minimum reading			0.001mm/m	0.001mm/m	0.001mm/m	0.01mm/m	0.001mm/m・ 0.0001°	0.001mm/m・ 0.0001°	0.001mm/m・ 0.0001°	0.001mm/m・ 0.0001°	± 0.2mm/m (1div. 0.01mm/m) ± 1mm/m (1div. 0.05mm/m)	0.001mm/m・ 0.0001°
Measuring range			± 5.000mm/m	± 5.000mm/m	± 5.000mm/m	± 5.00mm/m	± 5.00mm/m・ ± 0.286°	± 5.00mm/m・ ± 0.286°	± 5.00mm/m・ ± 0.286°	± 5.00mm/m・ ± 0.286°	± 2mm/m (1div. 0.1mm/m)	± 5.000mm/m・ ± 0.2865°
Wireless data output **			○ (Sensor to display)	○ (Receiver unit included)	○ (Built-in Bluetooth)	— (Optional unit available)	○ (Receiver unit included)	○ (Built-in Bluetooth)	— (Optional unit available)	— (Optional unit available)	—	○ (Receiver unit included)
Wired data output **			○ (Cable and display included)	○	○	○	○	○	○	○	○ (Analog voltage output)	—
Display measured value			△ (Use with wireless OFF)	○	○	○	○	○	○	○	○	—
Software for LEVELNIC	Integrated software for measuring instruments SK-LOG	P24 ~ 25	○ (Lite ver. included)	○ (Lite ver. included)	△ (Wired output only)	○	○	△ (Wired output only)	○	○	—	○
	Straightness software ST	P139	△ (for use in single-axis measurement)	—	—	△ (for use in single-axis measurement)	○	△ (Wired output only)	○	○	—	○
	Flatness software FL	P139	△ (for use in single-axis measurement)	—	—	△ (for use in single-axis measurement)	○	△ (Wired output only)	○	○	—	○
	Data recording software LEVELOG	P140	△ (for use in single-axis measurement)	—	—	△ (for use in single-axis measurement)	○	△ (Wired output only)	○	○	—	○
	Multi-data recording software LEVELOG-M	P140	△ (for use in single-axis measurement)	—	—	△ (for use in single-axis measurement)	○	△ (Wired output only)	○	○	—	○
	Data transfer software L-LOG	P140	△ (for use in single-axis measurement)	—	—	△ (for use in single-axis measurement)	○	△ (Wired output only)	○	○	—	○
Wireless connection unit	Bluetooth BOX DTW-DL01	P134	△ (1-axis measurement use, mounting plate not supported)	—	—	△ (for use in single-axis measurement)	△ (Mounting plate not supported)	△ (Mounting plate not supported)	○	△ (Mounting plate not supported)	—	—
	LEVELNIC wireless adapter DL-BW/ DL-BW (USB)	P134	○ (Use in self-supporting)	—	○ (Use in self-supporting)	○ (Use in self-supporting)	—	○ (Use in self-supporting)	○	○	—	—
	LEVELNIC wireless adapter DL-BW2 (USB)	P135	△ (Mounting plate not supported)	—	△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	△ (Mounting plate not supported)	○	△ (Mounting plate not supported)	—	—
	LEVELNIC wireless adapter DL-EX	P135	△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	○	△ (Mounting plate not supported)	—	—
Wired connection cable	PC connection cable DL-P7	P135	○	○	○	○	○	○	○	○	—	—
	PC connection cable DL-P6	P135	○ (Included)	○	○	○	○	○	○	○	—	—
	Connection cable for LEVELNIC EL-EL-K2	P135	—	—	—	—	—	—	—	—	○	—
Other options	L-type base for LEVELNIC DL-SL	P132	—	—	—	—	○	○	○	—	—	○
	L-type base for LEVELNIC DL-mL	P132	—	—	—	—	—	—	—	—	—	—
	Display DL-D6F	P132	—	—	—	△ (for use in single-axis measurement)	△ (Wired use)	△ (Wired use)	○	○	—	△ (USE receiver not compatible)
	Display DL-D6FX	P132	—	△ (Wired output use)	△ (Wired output use)	○	△ (Wired use)	△ (Wired use)	○	○	—	△ (USE receiver not compatible)
	Transmitter/ Display set DL-D5	P133	—	—	—	△ (for use in single-axis measurement)	△ (Wired use)	△ (Wired use)	○	○	—	—
	LEVELNIC Display DL-D4	P133	—	—	—	△ (for use in single-axis measurement)	△ (Wired use)	△ (Wired use)	○	○	—	△ (USE receiver not compatible)
	LEVELNIC Data collection adapter DL-ADP	P136	△ (for use in single-axis measurement)	—	—	△ (for use in single-axis measurement)	△ (Wired use)	△ (Wired use)	○	○	—	△ (USE receiver not compatible)
	LEVELNIC SD logger 3 DT-MCK3-XS-SK	P136	○	△ (Wired output use)	△ (Wired output use)	○	△ (Wired use)	△ (Wired use)	○	○	—	—
	LEVELNIC Base with adjustable pitch LP-200/ LP-300	P137	—	—	—	—	○	○	○	—	○	○
	Aluminum case for LEVELNIC LV-CS3	P137	—	—	—	—	○ (Included)	○ (Included)	○ (Included)	—	—	—
	Aluminum case for LEVELNIC LV-CM1	P137	—	—	—	—	—	—	—	—	—	—
	Aluminum case for LEVELNIC LV-C2W	P137	—	—	—	—	—	—	—	—	—	○ (Included)

												
LEVELNIC DL-mini	LEVELNIC DL-m4	LEVELNIC DL-m4M	LEVELNIC DL-m5	LEVELNIC DL-m5W	DIGITAL PROTRACTOR DP-45XY	DIGITAL PROTRACTOR DP-80XYH	DIGITAL PROTRACTOR DP-90XYM	DIGITAL PROTRACTOR DP-60XYB	DIGITAL PROTRACTOR DP-10XY	DIGITAL PROTRACTOR DP-10S・10D セット	DIGITAL PROTRACTOR DP-180	BEBEL BOX BB-180W
129	130	130	131	131	142	142	143	143	144	145	147	149
0.01mm/m	0.01mm/m	0.01mm/m	0.01mm/m	0.01mm/m	0.001° (0.01mm/m)	0.001° (0.01mm/m)	0.01° (0.1mm/m)	0.01° (0.1mm/m)	0.01° (When sensor mode: 0.002°)	0.01° (When sensor mode: 0.002°)	0.01°	0.1°
± 9.99mm/m	± 5.00mm/m	± 5.00mm/m	± 5.00mm/m	± 5.00mm/m	± 45°	± 80°	± 90°	± 60°	± 9.99°	± 9.99°	± 180°	± 180°
— (Optional unit available)	— (Optional unit available)	—	— (Optional unit available)	○ (Receiver unit included)	○ (Built-in Bluetooth・Wi-Fi)				—	○ (Sensor to display)	—	○ (Built-in Bluetooth)
○	○	○	○	○	USB Type-C cable				○ (Cable included)	○ (Cable included)	○ (Cable included)	—
○	○	—	○	○	○	○	○	○	○	—	○	○
○ (Supported by DL-m3 selection)	○	○ (Supported by DL-m3 selection)	○	○	○	○	○	○	○	○	○	○
○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—	—	—	—	—	—	—	—
○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—	—	—	—	—	—	—	—
○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—	—	—	—	—	—	—	—
○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—	—	—	—	—	—	—	—
○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—	—	—	—	—	—	—	—
△ (Mounting plate not supported)	○	—	○	○	—	—	—	—	—	—	—	—
○ (Use in self-supporting)	○ (Use in self-supporting)	—	○ (Use in self-supporting)	—	—	—	—	—	○ (Use in self-supporting)	○ (Use in self-supporting)	—	—
△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	△ (Mounting plate not supported)	—	—	—	—	—	△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	—
△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	—	—	—	△ (Mounting plate not supported)	△ (Mounting plate not supported)	—	—
○	○	—	○	○	—	—	—	—	○	○	—	—
○	○	—	○	○	—	—	—	—	○ (Included)	○ (Included)	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	○	○	—	—	—	—	—	—	—	—
—	○	—	—	—	—	—	—	—	—	—	—	—
○	○	—	○	△ (Wired use)	—	—	—	—	—	—	—	—
○	○	—	○	△ (Wired use)	—	—	—	—	—	—	—	—
△ (The 3rd decimal place is always 0)	△ (The 3rd decimal place is always 0)	—	△ (The 3rd decimal place is always 0)	△ (The 3rd decimal place is always 0 when using wired output)	—	—	—	—	—	—	—	—
○	○	—	○	△ (Wired use)	—	—	—	—	—	—	—	—
○	○	—	○	△ (Wired use)	—	—	—	—	—	—	—	—
○	○	—	○	△ (Wired use)	—	—	—	—	—	—	—	—
—	—	—	○	○	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
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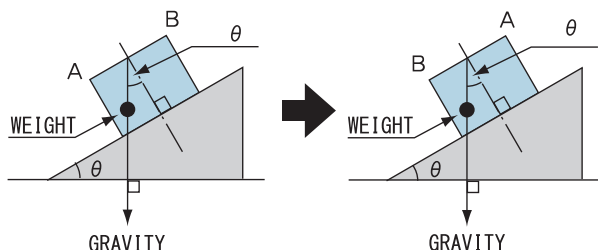
ANGLE MEASUREMENT SPECIFICATIONS SUMMARY ※ Refer to the page listed for each item for detailed specifications

	Product Name	Model No.	Measuring Range	Minimum Reading	Page
DIGITAL LEVEL	LEVELNIC	DL-SXY	± 5.000mm/m	0.001mm/m	122
	LEVELNIC	DL-SXYW-S・DL-SXYW-S(HID)	± 5.000mm/m	0.001mm/m	123
	LEVELNIC	LEVELNIC DL-mXY	± 5.00 mm/m	0.01mm/m	124
	LEVELNIC	DL-S4W SERIES・DL-S41W(HID)	± 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	DL-mini	± 9.99mm/m	0.01mm/m	129
	LEVELNIC	DL-m4・DL-m4M	± 5.00 mm/m	0.01mm/m	130
	LEVELNIC	DL-m5・DL-m5W	± 5.00 mm/m	0.01mm/m	131
LEVEL	LEVELNIC	EL-01A SERIES	± 0.2mm/m ± 1mm/m ± 2mm/m	0.01mm/m 0.05mm/m 0.1mm/m	127
DIGITAL PROTRACTOR	DIGITAL PROTRACTOR	DP-45XYS	± 45°	0.001°・0.01mm / m	142
	DIGITAL PROTRACTOR	DP-80XYH	± 80°	0.001°・0.01mm / m	142
	DIGITAL PROTRACTOR	DP-90XYM	± 90°	0.01°・0.1mm / m	143
	DIGITAL PROTRACTOR	DP-60XYB	± 60°	0.01°・0.1mm / m	143
	DIGITAL PROTRACTOR	DP-10XY SERIES	± 9.99°	0.01° (When sensor mode: 0.002°)	144
	DIGITAL PROTRACTOR	DP-10S・10D SET SERIES	± 9.99°	0.01° (When sensor mode: 0.002°)	145
	DIGITAL LEVEL SENSOR	DP-10M SERIES	± 9.998°	0.002°	145
	DIGITAL PROTRACTOR	DP-50	± 50°	0.1°	146
	DIGITAL PROTRACTOR	DP-90G EX	± 90°	1mm/m・0.05°・0.1%	146
	DIGITAL PROTRACTOR	DP-180	± 180°	0.01°	147
	BEVEL BOX	BB-180 SERIES	± 180°	0.1°	148・149
ANGLE METER	LEVEL METER KAIDAN	LM-90KDS・LM-90KD	0 ~ 90°	1°	152
	DIAL SLANT RULE KAIDAN	DSR-180KD・DSRM-180KD	0 ~ 180°	1°	152
	LEVEL MATE	LM-360	0 ~ 360°	1°	152
	LEVEL POINT M	LP-360	0 ~ 360°	1°	153
PROTRACTOR	PROTRACTOR No.15	PRT-15	180°	1°	156
	PROTRACTOR No.19 Satin finish	PRT-19	180°	1°	156
	PROTRACTOR No.19 Polished finish	PRT-19S	180°	1°	156
	PROTRACTOR No.19 2 blades	PRT-19SW	180°	1°	156
	PROTRACTOR No.19A	PRT-19A	180°	1°	157
	PROTRACTOR No.19B	PRT-19B	180°	1°	157
	PROTRACTOR No.182	PRT-182S	180°	1°	157
	PROTRACTOR No.183	PRT-183S	180°	1°	157
	PROTRACTOR KAIDAN No.19	PRT-19KD	180°	1°	158
	PROTRACTOR KAIDAN No.30	PRT-30KD	180°	1°	158
	PROTRACTOR No.30	PRT-30S	180°	1°	158
	PROTRACTOR No.101	PRT-101S	180°	1°	158
	PROTRACTOR No.300	PRT-300S・PRT-300SW	180°	0.5°	159
	PROTRACTOR No.400	PRT-400S・PRT-400SW	180°	0.5°	159
	PROTRACTOR No.600	PRT-600S・PRT-600SW	180°	0.5°	159
	PROTRACTOR No.1000	PRT-1000S・PRT-1000SW	180°	0.5°	159
	PROTRACTOR No.192	PRT192-90S・120S PRT192-90S2・120S2	180°	1°	159
	PROTRACTOR No.192	PRT192-200S・250S・300S PRT192-200S2・250S2・300S2	180°	0.5°	159
	PROTRACTOR No.193	PRT193-90・120・150	360°	1°	160
	PROTRACTOR No.193	PRT193-200・250・300	360°	0.5°	160
	INSIDE PROTRACTOR	IP-90	10° ~ 90°	1°	160
	DIGITAL UNIVERSAL PROTRACTOR	DUP-360AN	360°	1'・0.01°	162
ANGLE GAUGE	ANGLE GAUGE	WGA-65	25 ~ 65°・70 ~ 110°	0.5°・1°	161
	ANGLE PROTRACTOR	AP-130	30 ~ 130°・0 ~ 90°・0 ~ 180°	1°	161

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.



※ The following series are computer built-in type with one-touch 0 and 1/2 adjustment.

- DL-SXY series
- DL-S4W series
- DL-S3 series
- DL-m series
- DP-10XY series
- DP-10S・10D sets series
- Separate system

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-SXY



The popular 2-axis simultaneous measurement model!
With a wireless handy display for checking the measurements at a distance.

- High precision Digital Level
Resolution 0.001mm/m
- Stainless steel base
for easier maintenance



DL-SXYW



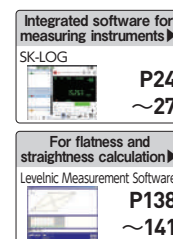
DL-DXYW

<Image of connecting>



Wired output
(DL-P6 included) ※4

Data management with software SK-LOG
*SK-LOG Lite version, connectable to only 1 device is included.



USE

- Accuracy measurement of machine tools

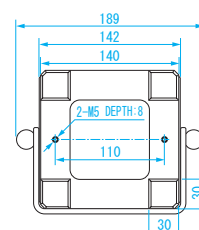
MATERIAL

- Sensor body: Aluminum ● Sensor base: Stainless steel ● Display: ABS, Acrylic resin

FEATURES

- Capable to measure 2-axis in X and Y direction at the same time
- Sensor and Display are connected wireless, can read measurements at a distance
- There is no wireless interference even when multiple units are used at the same time
- When the Sensor radio is turned off, the measured value is displayed on the Sensor display window, and the tilt can be measured by itself
- With a large LCD display
- Up to 42 sets (84) of measured data can be saved in the Display's internal memory
Checking or outputting the saved data later is possible
- The Display can be connected to PC with its external signal output
- Custom-made base can be attached to the threaded screw holes (M5 x P0.8) at the bottom base

DIMENSIONS (BASE) Units: mm



Order No.	Model No.
010124	DL-SXY

SPECIFICATIONS

Model Name	Set: DL-SXY (Individual model name Sensor: DL-SXYW / Display: DL-SXYW)
Measuring Range	± 5.000 mm/m ("Error" is displayed when the value exceeds the measuring range)
Minimum Reading	0.001 mm/m
Operating Temperature	0 ~ 40°C
Reading Accuracy ※1	Operating temperature 17 ~ 23°C ± 0.85%rdg (within ± 1.999mm/m) or repeatability, whichever is greater ± 1.0%rdg (over ± 2mm/m) Operating temperature 0 ~ 40°C ± 2.6%rdg (within ± 1.999mm/m) or repeatability, whichever is greater ± 2.7%rdg (over ± 2mm/m)
Repeatability	Within ± 0.005mm/m
XY Orthogonal Accuracy	1% or Repeatability, whichever is greater
Measurement Interval	Approx. 1.1 sec.
Output Signal	DL-SXYW → DL-DXYW Built-in wireless (Bluetooth Class1 ※3, Communication distance: 30 ~ 50m) DL-DXYW → PC Wired, Conforms to RS-232C ※4
Power Source	DL-SXYW AA battery × 2, AC adapter (DC3V output · AC100V ~ 240V) DL-DXYW AA battery × 2, AC adapter (DC3V output · AC100V ~ 240V)
Run Time (continuous use with alkaline batteries) ※2	DL-SXYW Approx. 20 hrs. (When communicating, for alkaline battery) Approx. 6 hrs. (When waiting to communicate, for alkaline battery) Approx. 40 hrs. (When use without communication, for alkaline battery) DL-DXYW Approx. 25 hrs. (For alkaline battery)
Dimensions	DL-SXYW L145 × W189 × H100mm DL-DXYW L154 × W96 × H38mm (without silicon cover) L158 × W105 × H48mm (with silicon cover)
Dimensions (base)	L140 × W140mm (stainless steel)
Weight	DL-SXYW 3.6kg (incl. batteries) / DL-DXYW 0.5kg (incl. silicon cover and batteries)
Accessories	● Carrying case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC3V output · AC100V ~ 240V) × 2 ● AA battery × 4 ● Recording software (SK-LOG Lite version) ● PC connection cable (DL-P6) ※4

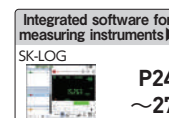
- ※ 1 : %rdg (percent reading) indicates percentage of the reading.
± 0.85% rdg can contain an error of ± 0.0085mm/m if the reading is 1.000mm/m.
- ※ 2 : May vary depending on usage conditions such as temperature. AA rechargeable batteries with a nominal 1.2V can also be used, however due to the characteristics of the discharge voltage curve, please note that the time from being displayed of "B: CHK" (DL-SXYW) or "S: CHK" / "D: CHK" (DL-DXYW) to the battery's runout is short.
- ※ 3 : Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU) and KCC (South Korea).
- ※ 4 : PC without D-SUB9 pin port (RS-232C) requires USB serial transmitter (optional).

LEVELNIC DL-SXYW-S SERIES



2-axis measurement sensor single-use device.

Able to be used for both outputting measured values by PC and by main unit.



High precision Digital Level 0.001mm/m display

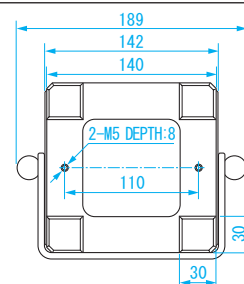
Able to send measuring data to i-OS and andoid smart phone and tablet

※DL-SXYW-S (HID)



DL-SXYW-S

DIMENSIONS (BASE) Units: mm



USE

- Accuracy measurement of machine tools

MATERIAL

- Sensor body: Aluminum
- Sensor base: Stainless steel
- Display: ABS, Acrylic resin

FEATURES

- Capable to measure 2-axis in X and Y directions with one unit
- Supports both wireless output and wired output
- No wireless interference between multiple units use
- The measured value is displayed on the sensor display, and the inclination can be measured by single unit
- Screw hole (M5) is provided on the bottom level surface, and special bases and jigs can be attached

SPECIFICATIONS

Model Name	DL-SXYW-S	DL-SXYW-S (HID)
Features	Bluetooth is pre-connected with included Wireless Receiving unit (RS-232C)	- Connected by Bluetooth HID to tablet and smart phone for keyboard use - Device name is able to be identified by its individual number - Output data includes device name to prevent receiving mistakes
Measuring Range	$\pm 5.000 \text{ mm/m}$ (Error will be displayed when overload)	
Minimum Reading	0.001 mm/m	
Operating Temperature	0 ~ 40°C	
Accuracy ^{※1}	Operating temperature 17 ~ 23°C $\pm 0.85\% \text{ rdg}$ (within $\pm 1.999\text{mm/m}$) or repeatability, whichever is greater $\pm 1.0\% \text{ rdg}$ (above $\pm 2\text{mm/m}$) Operating temperature 0 ~ 40°C $\pm 2.6\% \text{ rdg}$ (within $\pm 1.999\text{mm/m}$) or repeatability, whichever is greater $\pm 2.7\% \text{ rdg}$ (above $\pm 2\text{mm/m}$)	
Repeatability	Within $\pm 0.005\text{mm/m}$	
XY Orthogonal Accuracy	1% or Repeatability, whichever is greater	
Measurement Interval	Approx. 1.1 sec.	
Output Signal	Built-in wireless (Bluetooth Class1 ^{※3} , Communication distance: 30 ~ 50m) / Wired RS-232C	Built-in wireless (Bluetooth Class2 ^{※3} , Communication distance: 10 ~ 20m) / Wired RS-232C
Power Source	AA battery $\times 2$, AC adapter (DC3V $\cdot$ AC100V ~ 240V)	
Run Time (continuous use) ^{※2}	Approx. 20 hrs. (Wireless ON - communicating, Alkaline battery) Approx. 6 hrs. (Wireless ON - waiting to communicate, Alkaline battery) Approx. 40 hrs. (Wireless OFF, Alkaline battery)	Approx. 20 hrs. (Wireless ON, Alkaline battery) Approx. 40 hrs. (Wireless OFF, Alkaline battery)
Dimensions	L145 $\times$ W189 $\times$ H100mm	
Dimensions (base)	L140 $\times$ W140mm (Stainless steel)	
Accessories	- Wireless receiving unit for PC (USB Type-A) - Carrying case - Warranty - Instruction manual - Inspection report - AC adaptor (DC3V output $\cdot$ AC100V ~ 240V) $\times 1$ - AA battery $\times 2$ - Recording software (SK-LOG Lite ver.)	- Carrying case - Warranty - Instruction manual - Inspection report - AC adaptor (DC3V output $\cdot$ AC100V ~ 240V) $\times 1$ - AA battery $\times 2$

※ 1 : %rdg (percent reading) indicates percentage of the reading.

$\pm 0.85\% \text{ rdg}$ can contain an error of $\pm 0.0085\text{mm/m}$ if the reading is 1.000mm/m.

※ 2 : May vary depending on usage conditions such as temperature.

1.2V rechargeable AA battery may also be used but it will show "B: CHK" on display in short term.

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

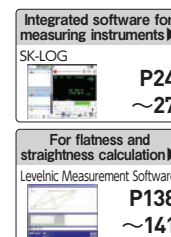
Order No.	Model No.	Weight
010129	DL-SXYW-S	3.6kg
010130	DL-SXYW-S(HID)	3.6kg

LEVELNIC DL-mXY



Compact m series model with capability of 2-axis simultaneous measurement.
Possible to output data signals for data recordings.

High precision Digital Level 0.01mm/m display



USE

- Accuracy measurement of machine tools

MATERIAL

- Sensor body: Aluminum
- Sensor base: Cast Iron

FEATURES

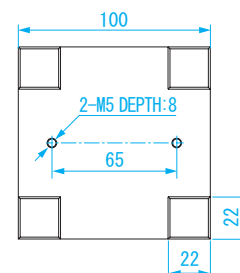
- Compact XY 2-axis measuring instrument, 14mm lower than DL-m3
- RS-232C output available for SK-LOG data transfer use
- Able to use straightness and flatness software at 1 axis mode
- The measured value is displayed on the sensor display, and the inclination can be measured by single unit
- Screw hole (M5) is provided on the bottom level surface, and special bases and jigs can be attached

SPECIFICATIONS

Measuring Range	± 5.00 mm/m
Minimum Reading	0.01 mm/m
Operating Temperature	0 ~ 40℃
Accuracy*1	Operating temperature 17 ~ 23℃ ± 0.02mm/m or ± 3% rdg whichever is larger (0 ~ ± 1.99mm/m) ± 4% rdg (± 2 ~ ± 5mm/m)
	Operating temperature 0 ~ 40℃ ± 0.02mm/m or ± 5% rdg whichever is larger (0 ~ ± 1.99mm/m) ± 6% rdg (± 2 ~ ± 5mm/m)
Repeatability	Within ± 0.01mm/m
XY Orthogonal Accuracy	1% or Repeatability, whichever is greater
Measurement Interval	Approx. 0.8 ~ 0.9 sec.
Output Signal	RS-232C
Power Source	AA battery × 2
Run Time (continuous use)*2	[Display back light- OFF] Zinc-carbon battery Approx. 50 hrs. (approx. 30 hrs. with signal output) Alkaline battery Approx. 100 hrs. (approx. 70 hrs. with signal output)
	[Display back light- ON] Zinc-carbon battery Approx. 13 hrs (approx. 10 hrs. with signal output) Alkaline battery Approx. 40 hrs. (approx. 25 hrs. with signal output)
Dimensions	L105 × W104 × H59mm (base: L100 × W100mm)
Accessories	● Carrying case ● Warranty · Instruction manual · Inspection report ● AA battery × 2

* 1 : %rdg (percent reading) indicates percentage of the reading.
± 3% rdg can contain an error of ± 0.03mm/m if the reading is 1.00mm/m.
* 2 : May vary depending on usage conditions such as temperature.

● DIMENSIONS (BASE) Units: mm



Order No.	Model No.	Weight
010126	DL-mXY	1.4kg

LEVELNIC DL-S3 SERIES



Why not make measurement easier and quicker than with the bubble tube method?

Numerical measurement with a resolution of 0.001 mm/m and no data reading error!

Please feel free to contact us if you have any questions.

- 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)



DL-S3

Integrated software for measuring instruments ▶ SK-LOG P24 ~27

For vertical measurement ▶ L-type Base P132

For wireless communication ▶ Wireless Adapter P134

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 ~141

Rust prevention ▶ Zerust Film for Steel P370

USE

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

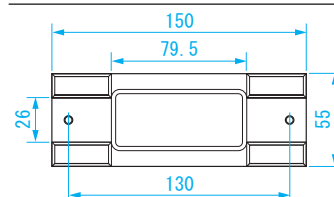
MATERIAL

- 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.

● DIMENSIONS (BASE) Units: mm



SPECIFICATIONS

Model No.	DL-S3/DL-S3 SUS	DL-S3C/DL-S3C SUS
Measuring Range*1	$\pm 5.00\text{mm/m} \cdot \pm 0.286^\circ$	
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 $\pm 0.85\% \text{rdg}$ (0 ~ ± 1.999mm/m · 0 ~ ± 0.1145°) or repeatability, whichever is greater $\pm 1.0\% \text{rdg}$ ($\pm 2 \sim \pm 5\text{mm/m} \cdot \pm 0.115^\circ \sim \pm 0.286^\circ$) Operating temperature 0 ~ 40°C $\pm 2.6\% \text{rdg}$ (0 ~ ± 1.999mm/m · 0 ~ ± 0.1145°) or repeatability, whichever is greater $\pm 2.7\% \text{rdg}$ ($\pm 2 \sim \pm 5\text{mm/m} \cdot \pm 0.115^\circ \sim \pm 0.286^\circ$)	
Repeatability	Within $\pm 0.005\text{mm/m} \cdot \pm 0.0003^\circ$	
Output Signal	Conforms to RS-232C	
Charging time	—	12 hrs. (when fully charged)
Power Source	9V dry cell 1pc AC adapter (DC9V output · AC100V ~ 240V) included	8.4V 006P type rechargeable battery 1pc
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	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC15V output · AC100V ~ 240V) ● 8.4V 006P type rechargeable battery 1pc

* 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 $\pm 1.999\text{mm/m} (\pm 0.1145^\circ)$.

* 2: % rdg indicates the percentage of displayed value

* 3: May vary depending upon measurement conditions

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
010018	DL-S3V	9V dry cell	Cast iron V groove base	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 $\phi 65\text{mm}$)

LEVELNIC DL-S3L



LEVELNIC DL-S3 with magnetic L-type base.

Magnetic base enables Z-axis measurement in addition to X-axis and Y-axis.

Super-strong magnet allows column measurement of machine tools and other equipment.

USE

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

MATERIAL

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

FEATURES

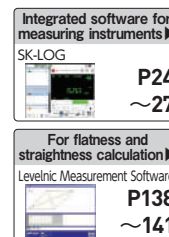
- Quick digital display of the measured value
- Measurement value can be output with RS-232 signal
- L-type magnetic base enables vertical (Z-axis) measurement
- With 130°V groove

POWER

- 9V dry cell 1 pc ● 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

LEVELNIC EL-01A SERIES



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

Data can be recorded by connecting the dedicated connection cable to an analog recorder.

High precision Analog Level Resolution 0.01mm/m

USE

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

MATERIAL

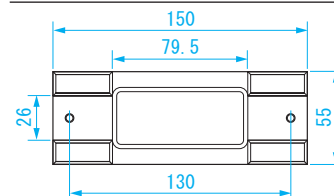
- Body: Aluminum

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



● DIMENSIONS (BASE) Units: mm



SPECIFICATIONS

Sensitivity	I : 1Division = 0.01mm/m II : 1Division = 0.05mm/m III : 1Division = 0.1mm/m	Measuring Range (3 Range)	$\pm 0.2\text{mm/m}$ (1Division 0.01mm/m) $\pm 1\text{mm/m}$ (1Division 0.05mm/m) $\pm 2\text{mm/m}$ (1Division 0.1mm/m)
Operating Temperature	0 ~ 40°C		
Pointing Error	Within ± 0.5 Division	Repeatability Accuracy	Within $\pm 0.005\text{mm/m}$
Output Signal	Analog output $\pm 200\text{mV F.S.}$ (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

For Levelnic EL connection cable More informations : P135

USE

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

LEVELNIC DL-S2W SERIES



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

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



DL-S2W

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.

Integrated software for measuring instruments ▶

SK-LOG P24 ~27

For vertical measurement ▶

L-type Base P132

For setting a fixed pitch ▶

Levelnic Base with Adjustable Pitch P137

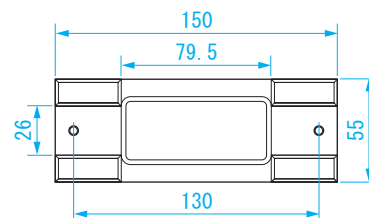
For flatness and straightness calculation ▶

Levelnic Measurement Software P138 ~141

Rust prevention ▶

Zerust Film for Steel P370

● DIMENSIONS (BASE) Units : mm



SPECIFICATIONS

Measuring Range	± 5.000mm/m · ± 0.2865° (Angle display with DL-S2W dedicated software)
Minimum Reading	0.001mm/m · 0.0001°
Operating Temperature	0 ~ 40°C
Accuracy ※1	Operating temperature 17 ~ 23°C ± 0.85% rdg (0 ~ ± 1.999mm/m, 0 ~ ± 0.1145°) or repeatability, whichever is greater ± 1.0% rdg (± 2 ~ ± 5mm/m, ± 0.1146 ~ ± 0.2865°) Operating temperature 0 ~ 40°C ± 2.6% rdg (0 ~ ± 1.999mm/m, 0 ~ ± 0.1145°) or repeatability, whichever is greater ± 2.7% rdg (± 2 ~ ± 5mm/m, ± 0.1146 ~ ± 0.2865°)
Repeatability	Within ± 0.005mm/m · ± 0.0003°
Radio System	Bluetooth Class1 ※2
Power Source	9V 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 (9-pin D-SUB) ● Power source cable for wireless unit ● Dedicated software for DL-S2W
	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 ● Receiving unit (USB Type) ● Dedicated software for DL-S2W

※ 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)

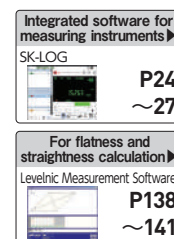
Order No.	Model No.	Receiving Unit Type	Software Language	Base Material	Weight
010017	DL-S2W	D-SUB9	Japanese · English	Cast iron	2.1kg
010054	DL-S2W(USB)	USB Type-A			2.1kg
010114	DL-S2W SUS	D-SUB9	Japanese	Stainless steel SUS303	2.1kg
010115	DL-S2W (USB) SUS	USB Type-A			2.1kg

LEVELNIC DL-mini **NEW!**



The lightest and Smallest Levelnic ever made.
This light weight level is suitable for measuring weight effective work.

■ High Precision Digital Level 0.01 mm/m display



USE

- Leveling of surface plates and machine tools

MATERIAL

- Body : Stainless
- Panel : acrylic

FEATURES

- Ultra-compact and highly portable
- wide measuring range of $\pm 9.99 \text{ mm/m}$
- Base measurement pitch is 50mm to allow continuous chain-measuring
- will not be influences by its self weight

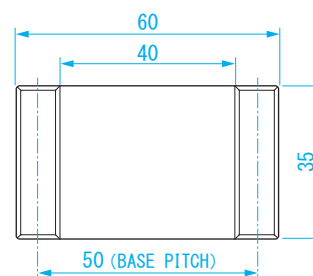
SPECIFICATIONS

Measuring Range	$\pm 9.99 \text{ mm/m}$
Minimum Reading	0.01 mm/m
Operating Temperature	$0 \sim 40^\circ \text{C}$
Accuracy *1	$\pm 0.03 \text{ mm/m}$ (at $17 \sim 23^\circ \text{C}$) or $\pm 3\% \text{rdg}$ ($0 \sim \pm 1.99 \text{ mm/m}$) $\pm 4\% \text{rdg}$ ($\pm 2 \sim \pm 9.99 \text{ mm/m}$) $\pm 0.03 \text{ mm/m}$ (at $0 \sim 40^\circ \text{C}$) or $\pm 7\% \text{rdg}$ ($0 \sim \pm 1.99 \text{ mm/m}$) $\pm 8\% \text{rdg}$ ($\pm 2 \sim \pm 9.99 \text{ mm/m}$)
Repeatability	Within $\pm 0.03 \text{ mm/m}$
Measurement Cycle	Approx. $0.5 \sim 0.68$ seconds
Output Signal	As per RS-232C
Power Source	AAA battery $\times 1 \text{ pcs}$
Continuous use operation hours *2	Manganese Battery approx. 20 hrs. (when signal output approx. 12 hrs) Alkaline Battery approx. 50 hrs. (when signal output approx. 30 hrs)
Dimensions	$L62 \times W35 \times H36 \text{ mm}$ (Base : $L60 \times W35 \text{ mm}$)
Accessories	● Storage Case ● Warranty · Instruction Manual · Inspection Report ● AAA battery $\times 1 \text{ pcs}$

※ 1 : %rdg (percent reading) is Reading accuracy percentage.
 $\pm 3\% \text{rdg}$ may include a $\pm 0.03 \text{ mm/m}$ tolerance when reading accuracy is 1.00 mm/m .
 ※ 2 : depends on condition and climate temperature.

Order No.	Model No.	Weight
NEW! 010133	DL-mini	290g

● DIMENSIONS (BASE) Units : mm



LEVELNIC

DIGITAL
PROTRACTOR

PRECISION
LEVEL

ANGLE
METER

LEVEL

PROTRA
CTOR

LEVELNIC DL-m4

Compact digital level with 0.01mm/m resolution.
Equipped with jig fixing screw holes as standard.

High precision Digital Level 0.01mm/m display

USE

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

MATERIAL

- Case: Aluminum Base: Cast Iron

FEATURES

- 14mm lower than DL-m3, compact and light weight
- Equipped with jig fixing screw holes as standard
- With RS-232C output for straightness and flatness software use

SPECIFICATIONS

Measuring Range	± 5.00 mm/m		
Minimum Reading	0.01 mm/m		
Operating Temperature	0 ~ 40°C		
Accuracy ^{*1}	Operating temperature 17 ~ 23°C ± 0.02 mm/m or $\pm 3\%$ rdg whichever is greater (0 ~ ± 1.99 mm/m) $\pm 4\%$ rdg ($\pm 2 \sim \pm 5$ mm/m)		
	Operating temperature 0 ~ 40°C ± 0.02 mm/m or $\pm 5\%$ rdg whichever is greater (0 ~ ± 1.99 mm/m) $\pm 6\%$ rdg ($\pm 2 \sim \pm 5$ mm/m)		
Repeatability	Within ± 0.01 mm/m	Measurement Interval	Approx. 0.5 ~ 0.6 sec.
Output Signal	Wired RS-232C	Power Source	AA battery $\times 2$
Run Time (continuous use) ^{*2}	Zinc-carbon battery Approx. 100 hrs. (approx. 50 hrs. with signal output) Alkaline battery Approx. 200 hrs. (approx. 100 hrs. with signal output)		
Dimensions	L105 $\times$ W50 $\times$ H59mm (base: L100 $\times$ W50mm)		
Accessories	● Carrying case ● Warranty · Instruction manual · Inspection report ● AA battery $\times 2$		

※ 1 : %rdg (percent reading) indicates percentage of the reading.
 $\pm 3\%$ rdg can contain an error of ± 0.03 mm/m if the reading is 1.00mm/m.
※ 2 : May vary depending on usage conditions such as temperature.

Order No.	Model No.	Weight
010125	DL-m4	770g



Integrated software for measuring instruments
SK-LOG

P24
~27

For vertical measurement
L-type Base DL-ml

P132

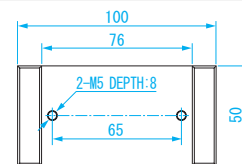
For flatness and straightness calculation
Levelnic Measurement Software

P138
~141

Rust prevention
Zerust Film for Steel

P370

● DIMENSIONS (BASE) Units: mm



LEVELNIC

DIGITAL
PROTRACTOR

PRECISION
LEVEL

ANGLE
METER

LEVEL

PROTRACTOR

LEVELNIC DL-m4M **NEW!**

To be used as a installed tilt sensor for all kinds of machinery

USE

- Can be fixed to machine tools or structures to measure inclination or as a control sensor

MATERIAL

- Body : Stainless (SUS430)

FEATURES

- Unit base and case are in integrated dustproof structure
SUS430 is used for rust prevention and to consider steel expansion coefficient
- Basic reference point setting (0 call and 1/2 call) are with switch input and with command input
- Continuous output and single output are able to be switched by command input

SPECIFICATIONS

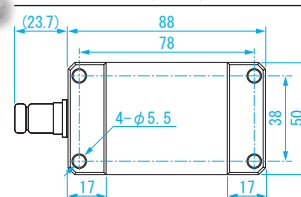
Measuring Range	± 5.00 mm/m		
Minimum Reading Value	0.01 mm/m		
Operating Temperature Range	0 ~ 40°C		
Reading Accuracy ^{*1}	$\pm 0.02^\circ$ (at 17 ~ 23° C) or $\pm 3\%$ rdg (0 ~ ± 1.99 mm/m) $\pm 4\%$ rdg ($\pm 2 \sim \pm 5$ mm/m)		
	$\pm 0.02^\circ$ (at 0 ~ 40° C) or $\pm 5\%$ rdg (0 ~ ± 1.99 mm/m) $\pm 6\%$ rdg ($\pm 2 \sim \pm 5$ mm/m)		
Repeatability	Within ± 0.01 mm/m	Power Source	DC9 ~ 24V (Current consumption approx. 20 mA)
Accessories	● Connector plug ● Warranty · Instruction Manual		

※ 1 : %rdg (percent reading) is Reading accuracy percentage.
 $\pm 3\%$ rdg may include a ± 0.03 mm/m tolerance when reading accuracy is 1.00 mm/m.
※ Cable connector (plug) installed. cable is to be self-made by purchaser.

Order No.	Model No.	Weight
NEW! 010134	DL-m4M	720g



● DIMENSIONS (BASE) Units: mm



LEVELNIC DL-m5/DL-m5W



Lowest height in the m series of 56mm.

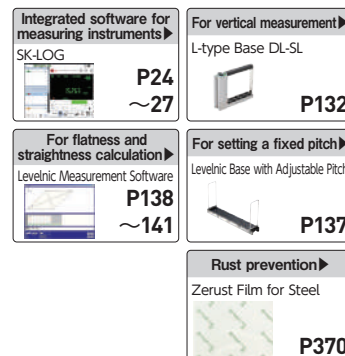
Able to be used for both outputting measured values by PC and by main unit.

■ High precision Digital Level 0.01mm/m display

■ Switchable Type : Wireless use / Cable use (DL-m5W)



DL-m5W



USE

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

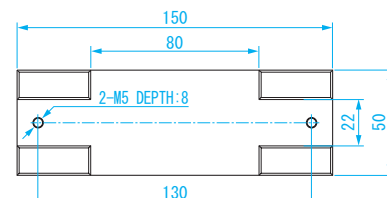
MATERIAL

- Case: Aluminum Base: Cast Iron

FEATURES

- Lowest height 56mm type in the m series
- With RS-232C output for straightness and flatness software use
- Jig fixing screw holes and dimensions are as same as DL-S3 and DL-S4W.
- Standard equipped wireless system. Wireless and cable output to be chosen. (DL-m5W)

● DIMENSIONS (BASE) Units: mm



SPECIFICATIONS

Model Name	DL-m5	DL-m5W (built-in wireless)
Measuring Range	$\pm 5.00 \text{ mm/m}$	
Minimum Reading	0.01 mm/m	
Operating Temperature	$0 \sim 40^{\circ}\text{C}$	
Accuracy*1	Operating temperature $17 \sim 23^{\circ}\text{C}$ $\pm 0.02\text{mm/m}$ or $\pm 3\%$ rdg whichever is greater ($0 \sim \pm 1.99\text{mm/m}$) $\pm 4\%$ rdg ($\pm 2 \sim \pm 5\text{mm/m}$)	
	Operating temperature $0 \sim 40^{\circ}\text{C}$ $\pm 0.02\text{mm/m}$ or $\pm 5\%$ rdg whichever is greater ($0 \sim \pm 1.99\text{mm/m}$) $\pm 6\%$ rdg ($\pm 2 \sim \pm 5\text{mm/m}$)	
Repeatability	Within $\pm 0.01\text{mm/m}$	
Measurement Interval	Approx. $0.5 \sim 0.6 \text{ sec.}$	
Output Signal	Wired RS-232C	Built-in wireless (Bluetooth Class1*3, Communication distance: $30 \sim 50\text{m}$) Wired RS-232C
Power Source	AA battery $\times 2$	
Run Time (continuous use)*2	Zinc-carbon battery Approx. 100 hrs. (approx. 50 hrs. with signal output)	Zinc-carbon battery Approx. 50 hrs. (approx. 30 hrs. with cable output) (approx. 8 hrs. with wireless output)
	Alkaline battery Approx. 200 hrs. (approx. 100 hrs. with signal output)	Alkaline battery Approx. 100 hrs. (approx. 70 hrs. with cable output) (approx. 20 hrs. with wireless output)
Dimensions	L155 $\times$ W50 $\times$ H56mm (base: L150 $\times$ W50mm)	
Accessories	● Carrying case ● Warranty · Instruction manual · Inspection report ● AA battery $\times 2$	● Wireless receiver unit for PC (USB Type-A) ● Carrying case ● Warranty · Instruction manual · Inspection report ● AA battery $\times 2$

*1 : %rdg (percent reading) indicates percentage of the reading.

$\pm 3\%$ rdg can contain an error of $\pm 0.03\text{mm/m}$ if the reading is 1.00mm/m .

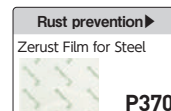
*2 : May vary depending on usage conditions such as temperature.

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

Order No.	Model No.	Weight
010127	DL-m5	1.0kg
010128	DL-m5W	1.0kg

L-TYPE BASE FOR LEVELNIC

LEVELNIC equipped with L-type base enables measurement in Z-axis in addition to X-axis and Y-axis



USE

- L-type base for Levelnic

MATERIAL

- Cast iron

FEATURES

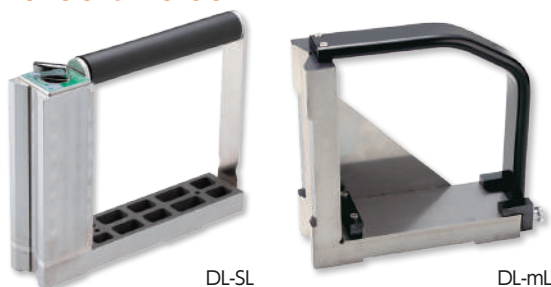
- Vertical (Z-axis) measurement is available by applicable Levelnic mounted on
- L-type magnetic base enables vertical (Z axis) measurement (DL-SL)
- With 130°V groove

Applicable Levelnic

DL-SL... ● DL-S4Wseries · DL-S3series · DL-S2Wseries, DL-m5, DL-m5W
DL-mL... ● DL-m4

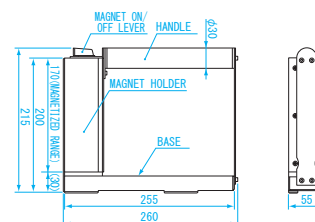
ACCESSORIES

- DL-SL... ● Shock resistant aluminum case · Instruction manual ·
M5 x 25 cap screw · L-type Wrench
DL-mL... ● Shock resistant aluminum case · Instruction manual



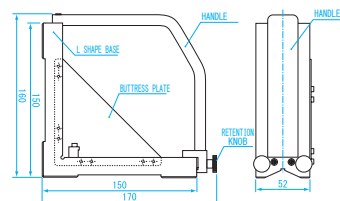
● DIMENSIONS (DL-SL)

Units: mm



● DIMENSIONS (DL-mL)

Units: mm



※ Base does not have magnetic capability

Order No.	Model No.	Base Squareness (mm)	Weight
010028	DL-SL	Within ± 0.04	4.9kg
010022	DL-mL	Within ± 0.035	1.9kg

LEVELNIC

DIGITAL PROTRACTOR

PRECISION LEVEL

ANGLE METER

LEVEL

PROTRACTOR

DISPLAY **NEW!**

Displays LEVELNIC measurements at hand.

Measurement values can be recorded directly in the device, eliminating the need for handwritten notes.

USE

- For displaying and recording LEVELNIC measurements with RS-232C signal output.

MATERIAL

- Case: ABS
- Panel: Acrylic
- Rubber Cover: Silicone rubber

FEATURES

- Compatible with LEVELNIC equipped with RS-232C signal output.
- Measurement data can be transferred to software for straightness and flatness analysis after measurement (supported in single-axis display mode).
- When combined with the DL-S2W (D-SUB 9-pin receiver unit model), it becomes a wireless sensor + display separate system.



Refer to P118-119 for compatible models

SPECIFICATIONS

MODEL	DL-D6F	DL-D6FXF
FEATURES	For single axis only	For single axis and for double axis
Display range	As per connected Levelnic	As per connected Levelnic *1 (within ± 9.999 mm/m)
Reading Accuracy	As per connected Levelnic	
Display cycle	As per connected Levelnic	
Data Recording	Maximum 84 records	Maximum 42 records (single axis 42 records)
Operating Temperature Range	0 to 40° C	
Input Signal *2	Single Axis Levelnic RS-232C	Double Axis Levelnic RS-232C Single Axis Levelnic RS-232C
Output Signal	As per RS-232C	
Power Source	AA battery x 2 pcs. AC adapter (DC 3V putput)	
Continuous Usage Time *3	Approx. 55hours (cable connected use. Alkaline battery) Approx. 9hours (D-SUB9 receiver unit use. Alkaline battery)	
Dimensions	L142 × W76 × H38mm(without outer rubber cover) L147 × W85 × H48mm(with outer rubber cover)	L152 × W96 × H38mm(without outer rubber cover) L156 × W105 × H48mm(with outer rubber cover)
Accessories	AC adapter (DC 3V putput) · AA battery x 2 pcs · Instruction Manual	

※ 1: Does not support DL-S3 / DL-S4W DEG (angle measurement) units. ※ 2: Cannot be used on Levelnic equipped with USB type receiver.

※ 3: Depends on condition and climate temperature. Nominal 1.2V AAbatteries could be used, but as from the battery discharge voltage curve characteristics the battery life is short after "CHK" shown on display.

Order No.	Model No.	Weight
NEW! 010047	DL-D6F	370g
NEW! 010132	DL-D6FXF	460g

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

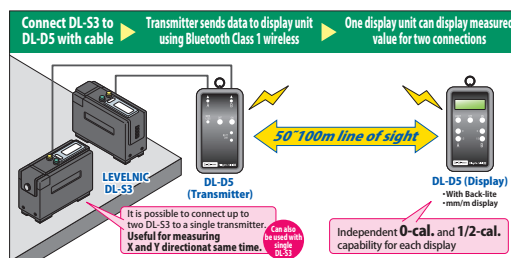
- Transmit and display measurements for up to two Levelnic DL-S3 series products

MATERIAL

- Body :ABS resin ● Cover :Silicon rubber

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



Refer to P118-119 for compatible models

SPECIFICATIONS

	Transmitter	Display
Input	Levelnic DL-S3 series external signal (×2)	—
Display	—	16 char × 2 lines character size = L4.9 × W2.5mm with backlight
Wireless	Bluetooth Class1 ^{※1}	
Communication Range	50 ~ 100m line-of-sight (depending on conditions)	
Operating Temperature	0 ~ 40°C	
Power Source	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	L144 × 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: Including batteries and silicone cover

Order No.	Model No.	Weight
010043	DL-D5	290g each ^{※ 2}

LEVELNIC DISPLAY

Can display data at a distance.

Check value of the Levelnic mounted on high places and on machine tools at hand.

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

Refer to P118-119 for compatible models

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
Accessories	AC adaptor (DC9V output · AC100V ~ 240V), 9V dry cell, instruction manual

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

BLUETOOTH BOX

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

Integrated software for
measuring instruments▶
SK-LOG

For flatness and
straightness calculation▶
Levelnic Measurement Software

P24
~27

P138
~141

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
- Answer back function: DATA LED blinks to let you know when recording is completed on the PC



Mounting example to DL-S3

Refer to P118-119 for compatible models

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, USB Type-A		
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		
Accessories	Dedicated software (SK-LOG Lite version), Data cable, USB charging cable, mounting plate, Bluetooth USB dongle adapter Class 1 (Japan Only), Instruction manual		

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

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

Refer to P118-119 for compatible models

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)		
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)

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

LEVELNIC WIRELESS ADAPTER DL-BW2(USB)/DL-EX

Compact wireless adaptor for DL-S3 series.
DL-EX is able to send measuring data to i-OS and android smart phone and tablet.

USE

- Wireless data transfer for DL-S3

MATERIAL

- Case: ABS ●Securing bracket: Stainless steel

FEATURES

- Transfer the output signal (RS-232C) from Levelnic by Bluetooth wireless
- Improved cableless workability by wireless system

SPECIFICATIONS

Model Name	DL-BW2(USB)	DL-EX
Features	• Pre-connected with attached receiver unit	• Connected by Bluetooth HID to tablet and smart phone for keyboard use • Device name is able to be identified by its individual number • Output data includes device name to prevent receiving mistakes
Input	Levelnic RS-232C signal	
Wireless	Bluetooth Class1 ^{※1}	Bluetooth Class2 ^{※1}
Communication Distance	30 ~ 50m	10 ~ 20m
Power Source	AA battery × 2 (able to use rechargeable battery)	
Run Time (continuous use) ^{※2}	Alkaline battery Approx. 20 hrs. (Wireless ON - continuous use) Alkaline battery Approx. 10 hrs. (Wireless OFF)	Alkaline battery Approx. 30 hrs. (Wireless ON - continuous use) Alkaline battery Approx. 40 hrs. (Wireless OFF) Zinc-carbon battery Approx. 10 hrs. (Wireless ON - continuous use) Zinc-carbon battery Approx. 13 hrs. (Wireless OFF)
Dimensions	L93 × W67 × H34mm	
Accessories	Wireless receiver unit for PC (USB Type-A), Signal cable, AA battery × 2, Instruction manual	Signal cable, AA battery × 2, Instruction manual

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

※ 2 : May vary depending on usage conditions such as temperature.

Order No.	Model No.	Weight
010057	DL-BW2(USB)	140g
010056	DL-EX	140g

Refer to P118-119 for compatible models



DL-BW2 (USB)



Mounting example to DL-S3

CONNECTION CABLE **NEW!**



DL-P6



DL-P7

USE

- For connecting LEVELNIC to a computer.

Refer to P118-119 for compatible models

Order No.	Model No.	Size	LEVELNIC-Side Connection Connector	Computer-Side Connection Connector
010040	DL-P6	φ 3mm × 5m	3.5mm stereo plug	9-pin D-SUB
NEW! 010049	DL-P7			USB Type-A Includes Type-C conversion cable

CONNECTION CABLE / EL-K2

USE

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

FEATURES

- Connects the signal output terminal of the Levelnic EL-01A to the signal terminal of the analog recorder

SPECIFICATIONS

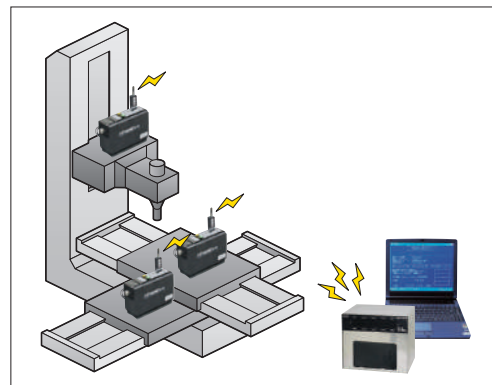
- Length: φ3 × 5m ●Recorder: Banana plug ●Levelnic: M3 plug



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

LEVELNIC DATA SYSTEM

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



Example using multiple units with Bluetooth wireless communication

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)

Refer to P118-119 for compatible models

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

SPECIFICATIONS

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 · AC 100V ~ 240V) AA batteries 6 pcs (rechargeable battery can also be used) ※ Run time depends on number of Levelnics
Dimensions	W180 × H150 × D130mm
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

FEATURES

- Measured value can be recorded on SD card without PC
- 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



Refer to P118-119 for compatible models

SPECIFICATIONS

Input	Levelnic RS-232C signal
SD card	SD / SDHC Max. 32GB
Power	AC adapter (DC9V output · AC 100V ~ 240V) included
Dimensions	W120 × D100 × H39mm

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

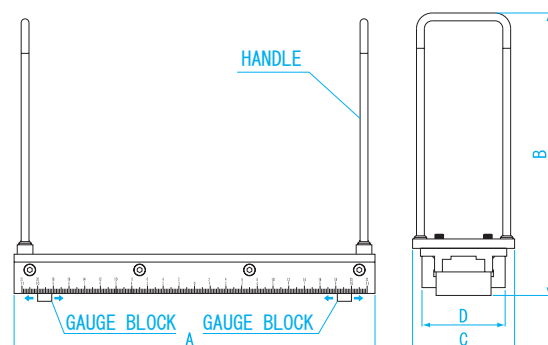
LEVELNIC BASE WITH ADJUSTABLE PITCH

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-S4W series, DL-S3 series, DL-S2W series, DL-S2, DL-m5, DL-m5W, 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-S2, DL-S1
LV-CM1: DL-m4
LV-C2W: DL-S2W series
- Shock protection during transport

Order No.	Model No.	Dimensions (mm) ※ Without handle	Weight
010025	LV-CS3	362 × 235 × 185	1.50kg
010026	LV-CM1	250 × 215 × 150	0.97kg
010034	LV-C2W	362 × 235 × 185	1.50kg

SOFTWARE FOR LEVELNIC

Software for Levelnic.

Simple operation and graphics for easy use and understanding.

Straightness measurement computer software (ST)

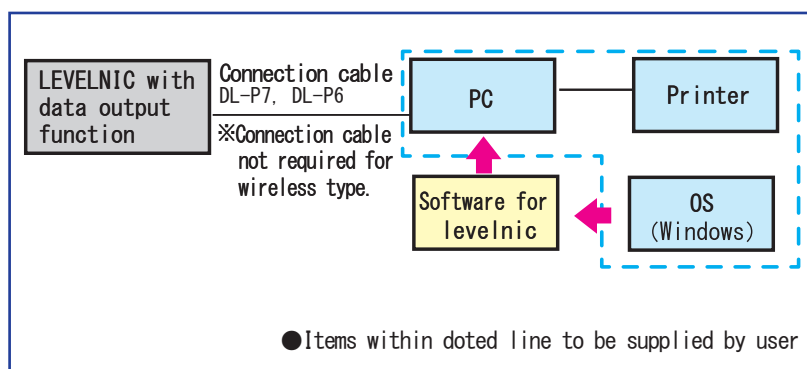
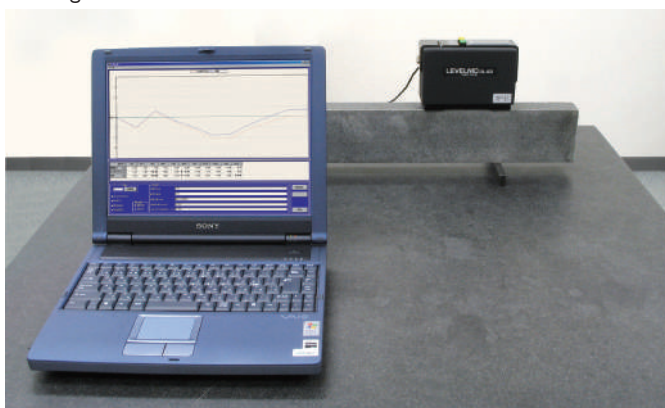
Flatness measurement computer software (FL)

- 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, 11[※]
- ※ Without LEVELNIC DATA TRANSFER SOFTWARE L-LOG

■ 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

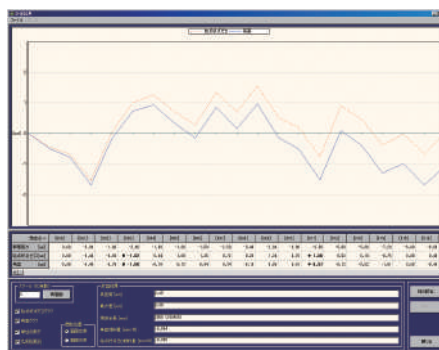
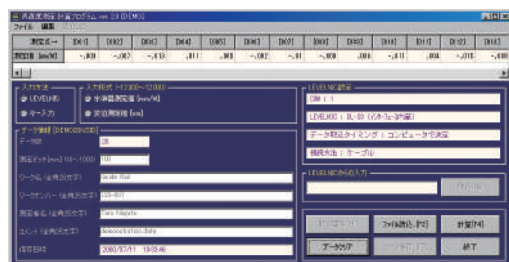
Measurement of displacement from a reference plane made with a linear gauge or dial indicator at regular intervals can be used in place of an electronic angle gauge (goniometer) and entered into keyboard for calculation, display and storage

LEVELNIC MEASUREMENT SOFTWARE (STRAIGHTNESS SOFTWARE)

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

● 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
- There are no restrictions on the model of the level when using key input.
Bubble tube type can also be used.

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10, 11

Refer to P141 for compatible models

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



LEVELNIC

DIGITAL
PROTRACTOR

PRECISION
LEVEL

ANGLE
METER

LEVEL

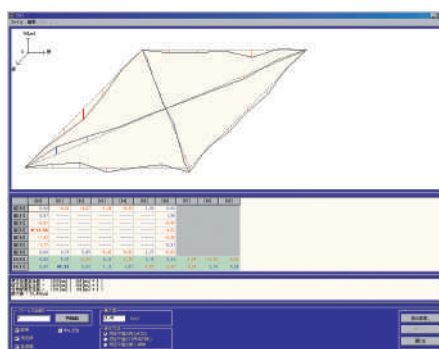
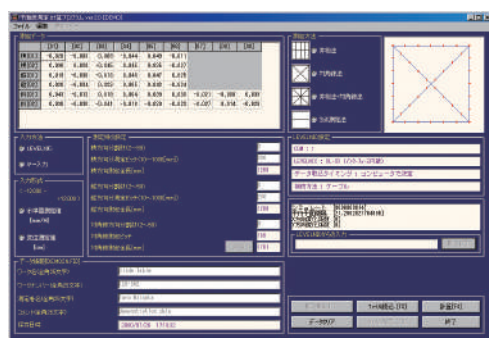
PROTRA
CTOR

LEVELNIC MEASUREMENT SOFTWARE (FLATNESS SOFTWARE)

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

● 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
- There are no restrictions on the model of the level when using key input.
Bubble tube type can also be used.

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10, 11

Refer to P141 for compatible models

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

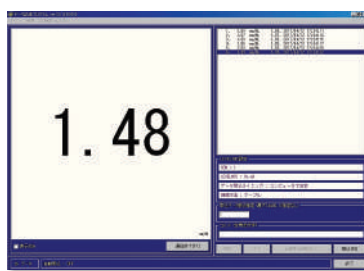
- Records output data from Levelnic

FEATURES

- Levelnic measurements are recorded to text file

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10, 11

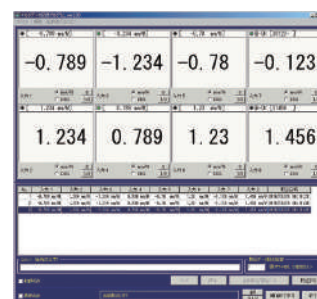


Refer to P141 for compatible models

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

LEVELNIC DATA RECORDING SOFTWARE (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

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10, 11

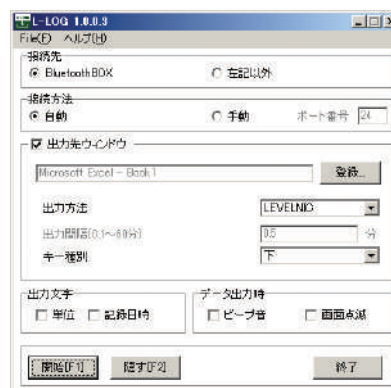
※ Computer requires COM port or USB port for each connected Levelnic

Refer to P141 for compatible models

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

LEVELNIC DATA TRANSFER SOFTWARE (DATA TRANSFER SOFTWARE L-LOG)

Able to transfer data to Excel and memo pad
for freely edit!



P134

USE

- Transfers data measured with the compatible Levelnic and data acquired with the Bluetooth BOX to any software.

FEATURES

- Able to transfer data to Excel and memo pad for freely edit
- Able to adjust output interval to Excel software and others

SPECIFICATIONS

- Supports: Windows XP, Vista, 7, 8, 10, 11

Refer to P141 for compatible models

Order No.	Model No.
010076	L-LOG

SOFTWARE FOR LEVELNIC COMPATIBLE PRODUCTS

				Software for Levelnic						
Product	Series	Product Image	Reference Page	INTEGRATED SOFTWARE FOR MEASURING INSTRUMENTS SK-LOG	STRAIGHTNESS SOFTWARE ST	FLATNESS SOFTWARE FL	DATA RECORDING SOFTWARE LEVELOG	MULTI-DATA RECORDING SOFTWARE LEVELOG-M	DATA TRANSFER SOFTWARE L-LOG	Dedicated software
				24 ~ 25	139	139	140	140	140	—
LEVELNIC	DL-SXY		122	○ (Lite version included)	△ (1-axis measurement only)	△ (1-axis measurement only)	△ (1-axis measurement only)	△ (1-axis measurement only)	△ (1-axis measurement only)	—
LEVELNIC	DL-SXYW-S		123	○ (Lite ver. included)	—	—	—	—	—	—
LEVELNIC	DL-SXYW-S (HID)		123	△ (Wired output only)	—	—	—	—	—	—
LEVELNIC	DL-mXY		124	○	△ (1-axis measurement only)	△ (1-axis measurement only)	△ (1-axis measurement only)	△ (1-axis measurement only)	△ (1-axis measurement only)	—
LEVELNIC	DL-S4W Series		125	○	○	○	○	○	○	○ (Included)
LEVELNIC	DL-S4W(HID)		125	△ (Wired output only)	△ (Wired output only)	△ (Wired output only)	△ (Wired output only)	△ (Wired output only)	△ (Wired output only)	—
LEVELNIC	DL-S3 Series		126 ~ 127	○	○	○	○	○	○	—
LEVELNIC	DL-S2W Series		128	○	○	○	○	○	○	○ (Included)
LEVELNIC	DL-mini		129	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—
LEVELNIC	DL-m4		130	○	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—
LEVELNIC	DL-m4M		130	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—
LEVELNIC	DL-m5		131	○	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—
LEVELNIC	DL-m5W		131	○	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	○ (Supported by DL-m3 selection)	—
DIGITAL PROTRACTOR	DP-45XYS		142	○	—	—	—	—	—	—
DIGITAL PROTRACTOR	DP-80XYH		142	○	—	—	—	—	—	—
DIGITAL PROTRACTOR	DP-90XYM		143	○	—	—	—	—	—	—
DIGITAL PROTRACTOR	DP-60XYB		143	○	—	—	—	—	—	—
DIGITAL PROTRACTOR	DP-10XY Series		144	○	—	—	—	—	—	○ (Included)
DIGITAL PROTRACTOR	DP-10S・DP-10D SET Series		145	○	—	—	—	—	—	○ (Included)
DIGITAL PROTRACTOR	DP-180		147	○	—	—	—	—	—	—
BEVEL BOX	BB-180W		149	○	—	—	—	—	—	—



LEVELNIC

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DIGITAL PROTRACTOR DP-45XYS **NEW!**

Achieves industry-leading reading accuracy through the adoption of MEMS sensors and proprietary control correction methods.

Features exceptional durability (resistant to temperature, humidity, vibration, and shock), making it easy to carry to work sites.

SPECIFICATIONS

Measuring Range	± 45°
Minimum Reading Value	0.001° (0.01mm/m)
Reading Accuracy (at 20°C)	± 0.003° (within 0.000° ~ 45.000°)
Operating Temperature Range	0 to 40°C
XY Orthogonality Accuracy	1%
Communication Interface	RS-232C, (RS-485, UART, CAN) ^{*1}
Wireless Interface	Bluetooth, BLE(Bluetooth Low Energy)Class1 ^{*2} , Wi-Fi ^{*3}
Display	2.8-inch color LCD (resistive touch panel) 360° high visibility using IPS technology
Waterproof and Dustproof Rating	Compliant with IP54
Vibration Resistance	Compliant with IEC/JIS C 60068-2-6
Shock Resistance	Compliant with IEC/JIS C 60068-2-27
Power Supply	Built-in polymer lithium-ion battery
Continuous Usage Time ^{*4}	12 hours
Charging Time	1.5 hours ※ Equipped with rapid charging and battery protection circuit
Dimensions	L115 × W66 × H32mm
Accessories	● AC adapter for charging

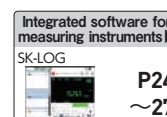
※ 1: The communication functions in () are available as custom options.

※ 2: Our Bluetooth system qualification is with ANATEL(Brazil),CE (EU), FCC (U.S.A·Canada), IC (Canada),KCC (South Korea),MIC (Japan), NCC (Taiwan)and SRRC (China)

※ 3: Wi-Fi will be supported in a future firmware update.

※ 4: Continuous usage time may vary slightly depending on usage conditions such as ambient temperature.

Order No.	Model No.	Weight
NEW! 010109	DP-45XYS	300g



USE

- Leveling for semiconductor manufacturing equipment, high-precision machine tools, etc.

MATERIAL

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

FEATURES

- Simultaneous 2-axis measurement for X and Y axes
- Equipped with a temperature compensation circuit
- IPS color LCD with a resistive touch panel
- USB Type-C interface for connectivity
- Long operating time (approx 12 hours) powered by LIB battery
- Compatible with SK-LOG integrated measurement software

DIGITAL PROTRACTOR DP-80XYH **NEW!**

A mid-range model with 1/1000 precision!

Designed for easy portability to work sites with excellent durability (resistant to temperature, humidity, vibration, and shock).

SPECIFICATIONS

Measuring Range	± 80°
Minimum Reading Value	0.001° (0.01mm/m)
Reading Accuracy (at 20°C)	± 0.005° (within 0.000° ~ 20.000°) ± 0.008° (within 20.001° ~ 40.000°) ± 0.01° (within 40.001° ~ 80.000°)
Operating Temperature Range	0 to 40°C
XY Orthogonality Accuracy	1%
Communication Interface	RS-232C, (RS-485, UART, CAN) ^{*1}
Wireless Interface	Bluetooth, BLE(Bluetooth Low Energy)Class1 ^{*2} , Wi-Fi ^{*3}
Display	2.8-inch color LCD (resistive touch panel) ※ 360° high visibility using IPS technology
Waterproof and Dustproof Rating	Compliant with IP54
Vibration Resistance	Compliant with IEC/JIS C 60068-2-6
Shock Resistance	Compliant with IEC/JIS C 60068-2-27
Power Supply	Built-in polymer lithium-ion battery
Continuous Usage Time ^{*4}	12 hours
Charging Time	1.5 hours ※ Equipped with rapid charging and battery protection circuit
Dimensions	L115 × W66 × H32mm
Accessories	● AC adapter for charging

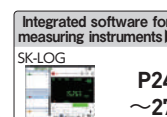
※ 1: The communication functions in () are available as custom options.

※ 2: Our Bluetooth system qualification is with ANATEL(Brazil),CE (EU), FCC (U.S.A·Canada), IC (Canada),KCC (South Korea),MIC (Japan), NCC (Taiwan)and SRRC (China)

※ 3: Wi-Fi will be supported in a future firmware update.

※ 4: Continuous usage time may vary slightly depending on usage conditions such as ambient temperature.

Order No.	Model No.	Weight
NEW! 010108	DP-80XYH	300g



USE

- Leveling and angle measurement for semiconductor manufacturing equipment, semiconductor testers, inspection jigs, etc.

MATERIAL

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

FEATURES

- Simultaneous 2-axis measurement for X and Y axes
- Equipped with a temperature compensation circuit
- IPS color LCD with a resistive touch panel
- USB Type-C interface for connectivity
- Long operating time (approx 12 hours) powered by LIB battery
- Compatible with SK-LOG integrated measurement software

DIGITAL PROTRACTOR DP-90XYM **NEW!**

A well-balanced standard model with 1/100 precision.
Designed for easy portability to work sites with excellent durability
(resistant to temperature, humidity, vibration, and shock).

SPECIFICATIONS

Measuring Range	± 90°
Minimum Reading Value	0.01° (0.01mm/m)
Reading Accuracy (at 20°C)	± 0.03° (within 0.00° ~ 20.00°) ± 0.06° (within 20.01° ~ 40.00°) ± 0.09° (within 40.01° ~ 90.00°)
Operating Temperature Range	0 to 40°C
XY Orthogonality Accuracy	1%
Communication Interface	RS-232C, (RS-485, UART)*1
Wireless Interface	Bluetooth, BLE(Bluetooth Low Energy)Class1*2, Wi-Fi*3
Display	2.8-inch color LCD (resistive touch panel) 360° High visibility using IPS technology
Waterproof and Dustproof Rating	Compliant with IP54
Vibration Resistance	Compliant with IEC/JIS C 60068-2-6
Shock Resistance	Compliant with IEC/JIS C 60068-2-27
Power Supply	Built-in polymer lithium-ion battery
Continuous Usage Time*4	10 hours
Charging Time	1.5 hours ※ A rapid charging function and battery protection circuit.
Dimensions	L115 × W66 × H32mm
Accessories	● AC adapter for charging

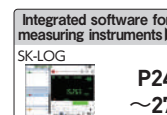
※ 1: The communication functions in () are available as custom options.

※ 2: Our Bluetooth system qualification is with ANATEL(Brazil),CE (EU), FCC (U.S.A+Canada), IC (Canada),KCC (South Korea),MIC (Japan), NCC (Taiwan)and SRRC (China)

※ 3: Wi-Fi will be supported in a future firmware update.

※ 4: Continuous usage time may vary slightly depending on usage conditions such as ambient temperature.

Order No.	Model No.	Weight
NEW! 010107	DP-90XYM	300g



USE

- For leveling of surface plates, machine tools, etc.

MATERIAL

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

FEATURES

- Simultaneous 2-axis measurement for X and Y axes
- IPS color LCD with a resistive touch panel
- USB Type-C interface for connectivity
- Long operating time (approx. 10 hours) powered by LIB battery
- Compatible with the SK-LOG integrated measurement software



LEVELING

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DIGITAL PROTRACTOR DP-60XYB **NEW!**

The popular DP-30XY2 has been renewed!
Supports data output via USB Type-C and wireless communication.

SPECIFICATIONS

Measuring Range	± 60°
Minimum Reading Value	0.01° (0.1mm/m)
Reading Accuracy (at 20°C)	± 0.05° (within 0.00° ~ 60.00°)
Operating Temperature Range	0 to 40°C
XY Orthogonality Accuracy	1%
Communication Interface	RS-232C, (RS-485, UART)*1
Wireless Interface	Bluetooth, BLE(Bluetooth Low Energy)Class1*2, Wi-Fi*3
Display	2.8-inch color LCD (resistive touch panel)
Power Supply	Built-in polymer lithium-ion battery
Continuous Usage Time*4	8 hours
Charging Time	2 hours (with battery protection circuit)
Dimensions	L115 × W66 × H32mm
Accessories	● AC adapter for charging

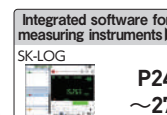
※ 1: The communication functions in () are available as custom options.

※ 2: Our Bluetooth system qualification is with ANATEL(Brazil),CE (EU), FCC (U.S.A+Canada), IC (Canada),KCC (South Korea),MIC (Japan), NCC (Taiwan)and SRRC (China)

※ 3: Wi-Fi will be supported in a future firmware update.

※ 4: Continuous usage time may vary slightly depending on usage conditions such as ambient temperature.

Order No.	Model No.	Weight
NEW! 010106	DP-60XYB	300g



USE

- Angle measurement for machinery, molds, and jigs and fixtures

MATERIAL

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

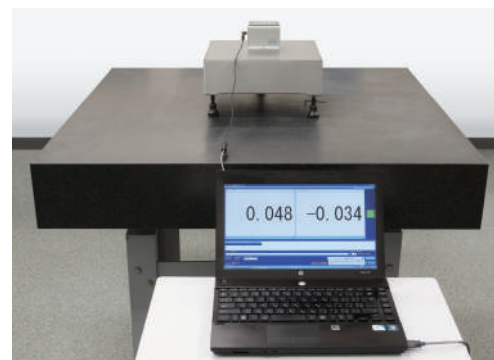
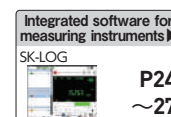
FEATURES

- Simultaneous 2-axis measurement for X and Y axes
- Equipped with a resistive touch panel color LCD
- USB Type-C interface for connectivity
- Long operating time (approximately 8 hours) powered by a LIB battery
- Compatible with SK-LOG integrated measurement software

DIGITAL PROTRACTOR DP-10XY SERIES



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 $\times$ P0.8) at the bottom base

SPECIFICATIONS

Measuring Range	$\pm 9.99^\circ$
Minimum Reading	0.01°
Operating Temperature	$0 \sim 40^\circ\text{C}$
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% or repeatability, whichever is greater
Response Time (measurement period)	Approx. 2.5s
Output Signal	Conforms to RS-232C ^{※1}
Power	AA battery 2pcs AC Adapter (DC3V output $\cdot$ AC100V $\sim$ 240V)
Run Time (continuous use) ^{※2}	Alkaline cells: Approx. 10 hrs.
Dimensions	L88 $\times$ W85 $\times$ H73mm
Accessories	● AC adapter (DC3V output $\cdot$ AC100V $\sim$ 240V) ● AA cells 2pcs ● Shock resistant aluminum case ● PC connection cable DL-P6^{※1} ● Angle calculation software ● Warranty $\cdot$ Instruction manual $\cdot$ 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



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	$\pm 9.99^\circ$
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 $\pm 2^\circ$)
Wireless	Bluetooth Class 1 ^{*1}
Communication Range	30 ~ 50m
Repeatability	$\pm 0.01^\circ$
XY Orthogonal Accuracy	1% or repeatability, whichever is greater
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	● AC adapter (DC3V output • AC100V ~ 240V) x 2pcs ● AA battery x 4pcs ● Shock resistant aluminum case ● PC connection cable DL-P6^{*2} ● 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)

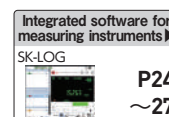
Order No.	Model No.	Software language
010094	DP-10S • 10D/SET	Japanese
010087	DP-10S • 10D/SET-E	English



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 $\pm 9.998^\circ$ 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.
- 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



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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

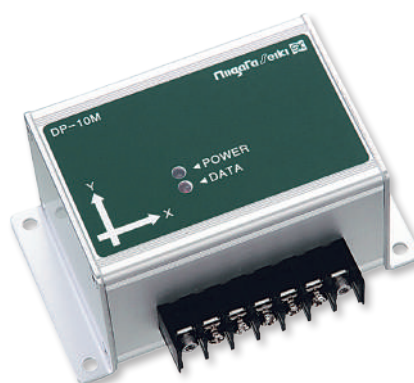
FEATURES

- 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

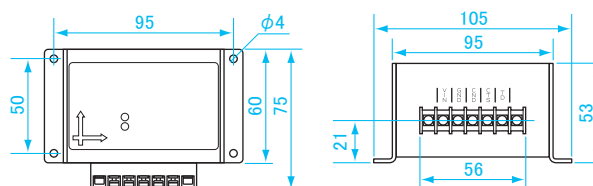
Measuring Range	$\pm 9.998^\circ$
Minimum Reading	0.002°
Operating Temperature	0 ~ 40°C
Accuracy	$\pm 0.01^\circ$ (for measuring range less than $\pm 2^\circ$) $\pm 0.05^\circ$ (for measuring range greater than $\pm 2^\circ$)
Repeatability	$\pm 0.01^\circ$
XY Orthogonal Accuracy	1% or repeatability, whichever is greater
Response Time (measurement period)	Approx. 2.5s
Output Signal	Conforms to RS-232C
Power	DC9 to 15V (approx. 70mA)
Dimensions	L105 x W75 x H53mm
Accessories	● Angle calculation software ● Warranty • Instruction manual ● Spade terminal (Y type) 5 pcs

※: Cable is to be self-made by purchaser.



● 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



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

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

DIGITAL PROTRACTOR DP-90G EX



Digital angle measurement. High precision & quick measurement.

USE

- For inclination measurement

MATERIAL

- Body: Aluminum

FEATURES

- A digital protractor with a wide measurement range (90°) using a liquid sensor
- The display is automatically reversed when the product is turned upside down
- Display unit can be switched between DEG, mm/M or %
- Notification tones for 0°, 90° and for 0%, 0mm/M
- With backlight for easy reading in a dark place (auto light off after approx. 1 min.)
- Display hold function ● Measuring surface is V grooved with magnet
- Auto power off function (after approx. 6 min.)



SPECIFICATIONS

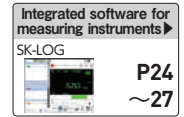
Measuring Range	± 90°
Minimum Reading	Degree: 0.05° Percentage: 0.1% Inclination: 1mm/M
Reading Accuracy	± 0.3° (0° ~ 90°)
Operating Temperature	0 ~ 50°C
Display Setting Time	Approx. 10 sec.
Power Source	9V dry cell × 1pc
Dimensions	L173 × W47 × H68mm (excluding protrusions)
Accessories	● Soft case ● Warranty · Instruction manual · Inspection report ● 9V dry cell battery

Order No.	Model No.	Weight
010098	DP-90G EX	550g

DIGITAL PROTRACTOR DP-180



Compact digital inclinometer with a wide measuring range.
Data output by connecting with the included USB cable.



USE

- For inclination measurement

MATERIAL

- Body: Aluminum

FEATURES

- Zero setting at desired position
- Absolute measurement mode that can store the origin
- Display hold function
- With magnets on measuring surface (bottom & left)
- Data can be sent by connecting a USB cable

SPECIFICATIONS

Measuring Range	± 180°	Display Unit	DEG
Minimum Reading	0.01°	Power Source	Litium-ion battery
Operating Temperature	0 ~ 40°C	Run Time (Continuous use)	Approx. 6 hrs. ※ Depending on measurement condition
Reading Accuracy	± 0.05° (when at 20°C)	Dimensions	L83 × W20 × H53mm
Repeatability	± 0.03°	Weight	125g
Accessories	● USB cable ● AC adapter (for charging · AC100V ~ 240V) ● Warranty · Instruction manual · Inspection report		

Order No.	Model No.	Weight
010045	DP-180	125g

BEVEL BOX BB-180



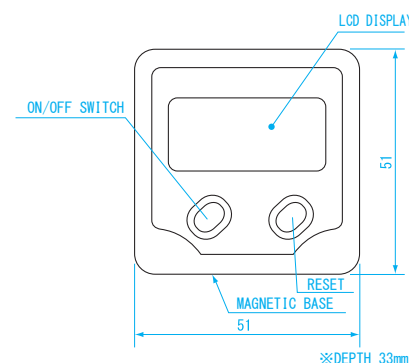
Compact design digital inclinometer.

It can be used in small spaces where it could not be installed before.



● DIMENSIONS

Units: mm



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

※ 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

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BEVEL BOX BB-180A



Compact design digital inclinometer.

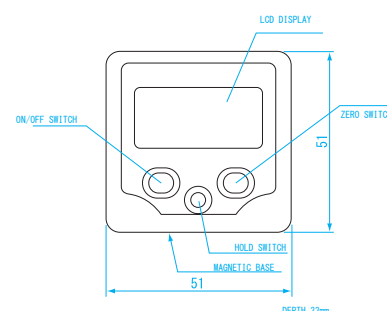
It can be used in small spaces where it could not be installed before.

Absolute measurement mode stores true horizontal



● DIMENSIONS

Units: mm



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

※ 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.

It can be used in small spaces where it could not be installed before.

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: ABS Base: Aluminum (with magnet on base)

FEATURES

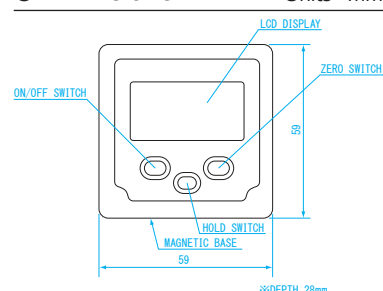
- Zero setting at desired position
- Absolute measurement mode stores true horizontal
- Large LCD with backlight for easy reading in a dark place
- "Hold" button to fix reading on display
- Auto power off function (after approx. 5 min.)

POWER

- One AAA battery (NOT included in the package)



● DIMENSIONS Units: mm



※ 1 Quantization Error (± 1 digit) not included ※ 2 When battery is not installed

Order No.	Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy ^{※1}	Repeatability	Weight ^{※2}
010103	BB-180L	$\pm 180.0^\circ$	0.1°	5 ~ 45°	$\pm 0.2^\circ$	0.1°	70g

BEVEL BOX BB-180W



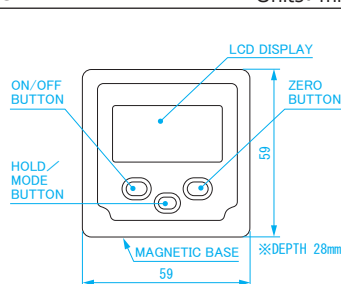
With Built-in Bluetooth for sending or recording measured value to PC or smart phone.

With functions of backlight ON/OFF setting, and auto power off ON/OFF.

Built-in Bluetooth type for sending measured value



● DIMENSIONS Units: mm



USE

- A precision angle measuring instrument for installing machines, molds and fixtures, for assembly and for setting reference standard

MATERIAL

- Body: ABS Base: Aluminum (with magnet on base)

FEATURES

- Radio system: Bluetooth4.1 (communication distance within 10m)[※]
- Zero setting at desired position
- Absolute measurement mode stores true horizontal
- With backlight for easy reading in a dark place (ON/ OFF switchable)
- Display hold function
- Auto power off function (after approx. 5 min.) (ON/ OFF switchable)

POWER

- One AAA battery (Not included in the package)

※ Certified with TELEC (JAPAN) and CE (EU). Can also be used in China and Vietnam.

※ 1 Quantization Error (± 1 digit) not included ※ 2 When battery is not installed

Order No.	Model No.	Measuring Range	Resolution	Operation Temperature	Reading Accuracy ^{※1}	Repeatability	Weight ^{※2}
010104	BB-180W	$\pm 180^\circ$	0.1°	5 ~ 45°C	$\pm 0.2^\circ$	0.1°	75g

SK-LOG for smartphone

Download from the link below

Android (Google Play) ※Android 8.0 or later
<https://play.google.com/store/apps/details?id=jp.co.niigataseiki.sklog>



iOS (App Store) ※iPhone iOS13 or later
<https://apps.apple.com/jp/app/id1499031153?mt=8>



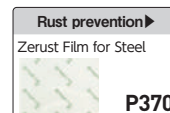
※The smartphone app can connect only 1 device.
 If you wish to connect multiple units, please use SK-LOG STD version of the PC software (sold separately).

Download free Lite version to check the usability of SK-LOG for PC.

※ Lite version: 1 connected device
 Excel cell specification output not available
https://www.niigataseiki.co.jp/software_sklog/



PRECISION LEVEL (JIS CLASS A)



USE

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

MATERIAL

- Base: Special tool steel body (hardened)

FEATURES

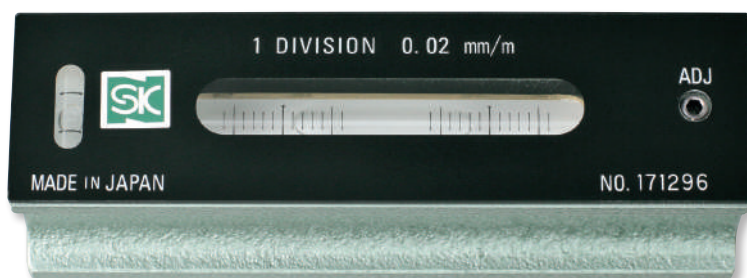
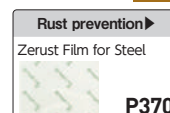
- JIS B7510
- Lapped and polished base
- Provided with inspection report

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

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

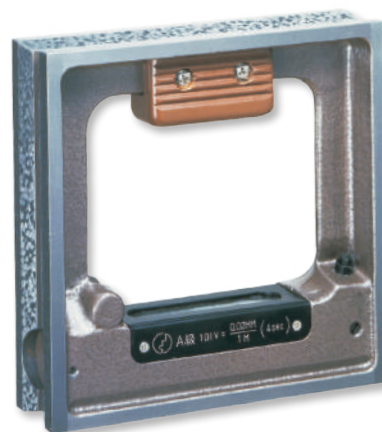
- Quality cast iron (FC250) with lapped finish to maintain precision

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

- Cast iron

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

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



LEVEL/INCH

DIGITAL
PROTRACTOR

PRECISION
LEVEL

ANGLE
METER

LEVEL

PROTRACTOR



LEVEL METER KAIDAN



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

USE

- Measurement of inclination angle

MATERIAL

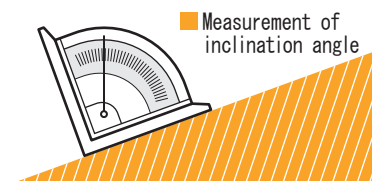
- Body: AS resin
- Cover: Acrylic resin

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

- Measuring range: 0~90°
- Minimum reading: 1°
- Accuracy: $\pm 0.5^\circ$



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

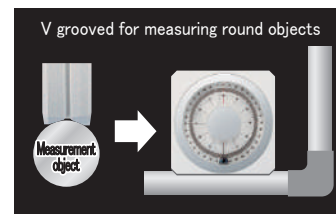
- Plastic

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: $\pm 0.5^\circ$



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



DIAL SLANT RULE KAIDAN



Analog angle meter with new stepped millimeter graduations that prevents misreading

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°
- Minimum reading: 1°
- Accuracy: $\pm 0.5^\circ$



DSR-180KD



DSRM-180KD
(with magnet)

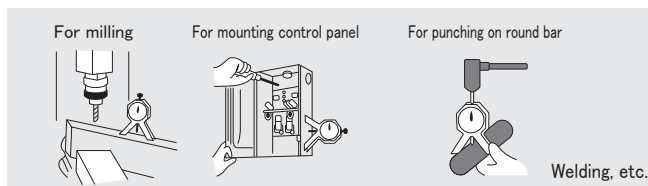
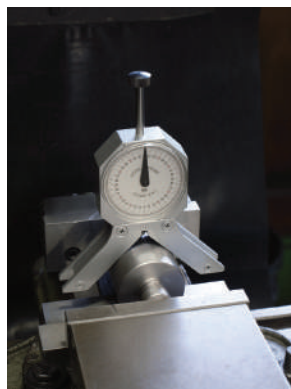


Dual scales for Angle & Inclination measurement

Order No.	Model No.	Type	Magnetic Attraction (Reference Value)	Dimensions L × H × W (mm)	Weight
011002	DSR-180KD	-	-	182 × 92 × 20	84g
011003	DSRM-180KD	with magnet	8N	182 × 92 × 20	86g

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

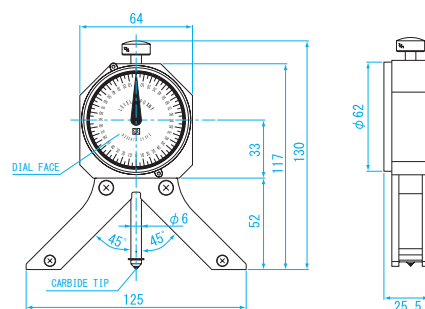
- Single touch for direct angle reading
- Can quickly and accurately measure any angle from horizontal to vertical
- Punch end is carbide tipped
- Magnetic feet

SPECIFICATIONS

- Measuring range: 0~360°
- Minimum reading: 1°
- Accuracy: $\pm 1^\circ$
- 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 · Vertical · 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			164g
111201	ALM-230		Horizontal · Vertical	230			220g
111202	ALM-300		Horizontal · Vertical · 45°	300			340g
111203	ALM-380			380			380g
111204	ALM-450			450			410g
111205	ALM-600			600			500g

BUBBLE LEVEL



CT-70



S-90



CR-24

USE

- Horizontal measurement for construction, installation, and leveling machinery

MATERIAL

- Acrylic resin, aluminum, cast iron

FEATURES

- Horizontal measurement is possible



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	φ 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

LEVELNIC

DIGITAL PROTRACTOR

PRECISION LEVEL

ANGLE METER

LEVEL

PROTRACTOR

BUBBLE LEVEL WITH STRONG MAGNET (SAFETY)

0

Bubble level with a carabiner hook and a rope ring to prevent falling and secure safety operation. Comes with a detachable holder to attach to a belt.



SJL-100W



SJL-150R

With a detachable holder to attach to a belt



USE

- Horizontal, vertical, 45° measurements

MATERIAL

- Body: ABS ● Measuring surface: Aluminum
- Carabiner hook: Stainless steel ● Holder: ABS

FEATURES

- Strong magnetic measuring surface. It does not fall with fine adjustment by a hammer while adsorbing.
- With a carabiner hook and a rope ring to prevent falling
- With a detachable holder to attach to a belt
- V grooved measuring surface for convenient measurement on round objects

SPECIFICATIONS

- Bubble tube sensitivity: 0.50mm/m=0.0286°
- Vial accuracy: Within ±1.50mm/m=±0.0859°
- 2-line acrylic bubble tube with phosphorescent tape
- 360° acrylic spot level for checking



Easy installation, just slide down onto the belt

※ 1 : Holder and ring not included ※ 2 : Holder not included

Order No.	Model No.	Color	Bubble tube type	Length ^{*1} (mm)	Height ^{*1} (mm)	Thickness ^{*1} (mm)	Weight ^{*2}
111380	SJL-100W	White	Horizontal・Vertical	124	47	20	100g
111381	SJL-100R	Red					
111382	SJL-150W	White	Horizontal・Vertical・45°	185			137g
111383	SJL-150R	Red					

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

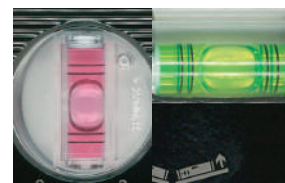
- Bubble tube sensitivity: $0.50\text{mm/m} = 0.0286^\circ$
- Accuracy: Less than $\pm 1.00\text{mm/m} = \pm 0.0573^\circ$

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					

SUPER STRONG MAGNETIC BUBBLE LEVEL



Twice as strong as our other magnetic levels.

It will not fall even if fine adjustments are made with a hammer while it is adsorbed.

USE

- Horizontal, vertical, and 45° measurements

MATERIAL

- Plastic

FEATURES

- Magnetic measuring surface
- 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-100KB

ML-150KW

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					
111220	ML-150KB	Black	Horizontal · Vertical · 45°	150			110g
111221	ML-150KW	White					

PROTRACTOR No.15

With sliding graduated blade



HOW TO MOVE



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Depth measurement is possible with graduated blade

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)



LEVELNIC

DIGITAL
PROTRACTOR

PRECISION
LEVEL

ANGLE
METER

LEVEL

PROTRA
CTOR

PROTRACTOR No.19

Polished finish with graduated blade



HOW TO MOVE



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Polished finish

SPECIFICATIONS

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

For angle measurement



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

PROTRACTOR No.19

Two blades type for measuring sharp angles



HOW TO MOVE



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Satin finish
- Can measure acute angle down to 10°

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Size: ϕ 90mm × (T)1.2mm
- Blade size: (L)204 × (T)1.2mm

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

PROTRACTOR No.19

Satin finish with graduated blade



HOW TO MOVE



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Satin finish

SPECIFICATIONS

- Graduation: 1°
- Maximum angle: 180°
- Accuracy: ±20'
- Size: ϕ 90mm × (T)1.2mm
- Blade size: (L)204mm × (T)1.2mm

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

PROTRACTOR No.19A

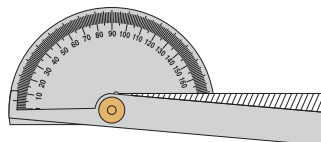


HOW TO MOVE

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: 180°
- Accuracy: $\pm 20'$
- Protractor size: $\phi 90\text{mm} \times (\text{T}) 1.2\text{mm}$
- Blade: (L) 204mm $\times$ (T) 1.2mm

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

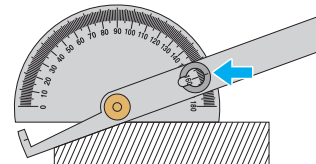
PROTRACTOR No.19B



HOW TO MOVE



● 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: $\pm 20'$
- Protractor size: $\phi 90\text{mm} \times (\text{T}) 1.2\text{mm}$
- Blade: (L) 204mm $\times$ (T) 1.2mm

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

PROTRACTOR No.182



HOW TO MOVE

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

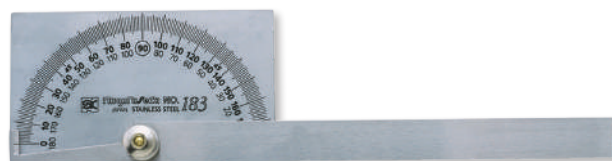
- Graduation: 1°
- Maximum angle: 180°
- Accuracy: $\pm 20'$
- Protractor size: $\phi 90\text{mm} \times (\text{T}) 1.2\text{mm}$
- Blade: (L) 204mm $\times$ (T) 1.2mm

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

PROTRACTOR No.183



HOW TO MOVE



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

- Satin finish

SPECIFICATIONS

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

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



PROTRACTOR K AidAN No.19



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



Easy-to-read by new original design of blade and graduation

POINT

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

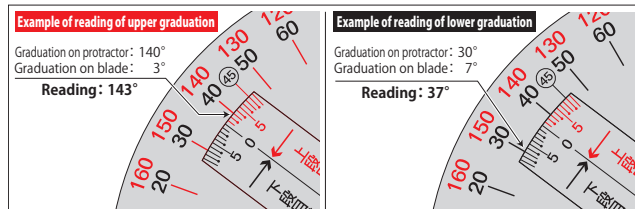
Order No.	Model No.	Maximum angle	Graduation	Accuracy	Weight
008006	PRT-19KD	180°	1°	$\pm 20'$	60g



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°	$\pm 20'$	117g

PROTRACTOR No.30



HOW TO MOVE

Recommended for plate working.
Cost-effective model with this performance at this price.



USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

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

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

PROTRACTOR No.101



HOW TO MOVE

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: $\pm 15'$
- Protractor size: $\phi 120\text{mm} \times (\text{T}) 1.5\text{mm}$
- Blade size: (L) 304mm $\times$ (T) 1.5mm (Graduation 1mm 2 steps on one side)

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

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



HOW TO MOVE

Large size protractor.

Please choose a suitable model based on your work size.

USE

- Angle measurement

MATERIAL

- Stainless steel

FEATURES

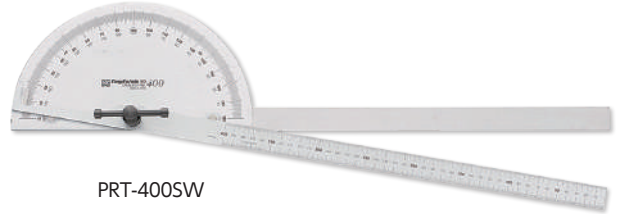
- Satin finish
- With T-handle lock nut (PRT-300SW, PRT-400SW)

SPECIFICATIONS

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



PRT-400S



PRT-400SW

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



LEVELNIC

DIGITAL PROTRACTOR

PRECISION LEVEL

ANGLE METER

LEVEL

PROTRACTOR

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

SPECIFICATIONS

- Maximum angle: 180°

Order No.	Model No.	Graduation	Diameter (mm)	Thickness (mm)	Center hole diameter (mm)	Accuracy	Weight
008901	PRT192-90S	1°	90	1.2	φ 5.0	±20'	40g
008903	PRT192-120S		120	1.5	φ 6.5		80g
008930	PRT192-200S		210	2.0	φ 8.0		310g
008940	PRT192-250S	0.5°	250	2.0	φ 8.0	±15'	440g
008960	PRT192-300S		320	2.5	φ 9.3		870g

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

SPECIFICATIONS

- Maximum angle: 180°

Order No.	Model No.	Graduation	Diameter (mm)	Thickness (mm)	Center hole diameter (mm)	Accuracy	Weight
008911	PRT192-90S2	1°	90	1.2	φ 5.0	±20'	40g
008912	PRT192-120S2		120	1.5	φ 6.5		80g
008913	PRT192-200S2		210	2.0	φ 8.0		310g
008914	PRT192-250S2	0.5°	250	2.0	φ 8.0	±15'	440g
008915	PRT192-300S2		320	2.5	φ 9.3		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

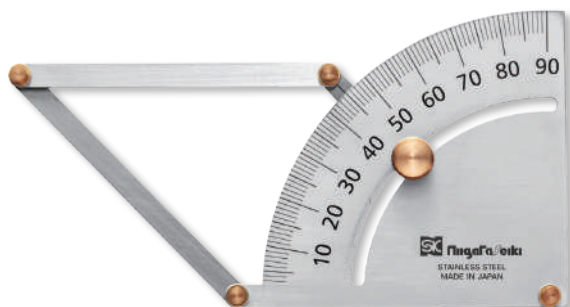
- A circle plate protractor
- Satin finish

Order No.	Model No.	Graduation	Maximum angle	Diameter (mm)	Thickness (mm)	Center hole diameter (mm)	Accuracy	Weight
009109	PRT193-90	1°	360°	90	1.2	φ 5.0	±20′	60g
009112	PRT193-120			120	1.5	φ 6.5		140g
009115	PRT193-150			150	1.5	φ 6.5		210g
009120	PRT193-200	0.5°		200	2.0	φ 8.0		510g
009125	PRT193-250			250	2.0	φ 8.0		780g
009130	PRT193-300			300	2.5	φ 10.0		1.38kg

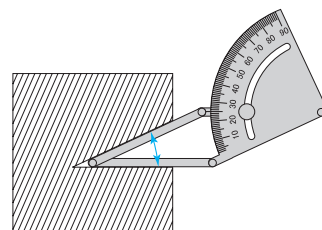
INSIDE PROTRACTOR



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



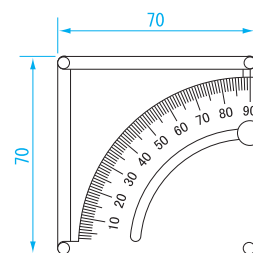
● Example of use



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

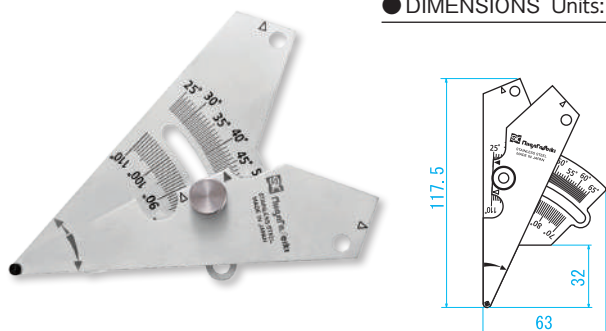
FEATURES

- 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°

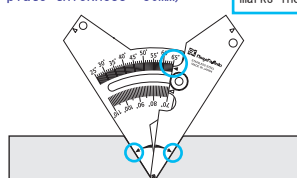
● DIMENSIONS Units: mm



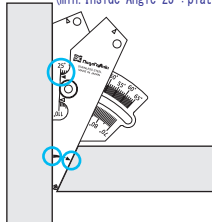
● Example use

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 ▶

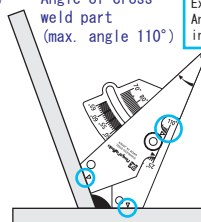


Example 2) T-joint gap angle measurement
(min. Inside Angle 25° : plate thickness : 30mm)

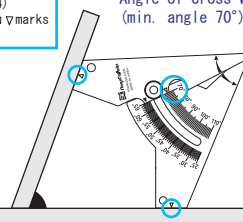


Example 3) Angle of cross weld part
(max. angle 110°)

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

DIGITAL
PROTRACTOR

PRECISION
LEVEL

ANGLE
METER

LEVEL

PROTRA
CTOR

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

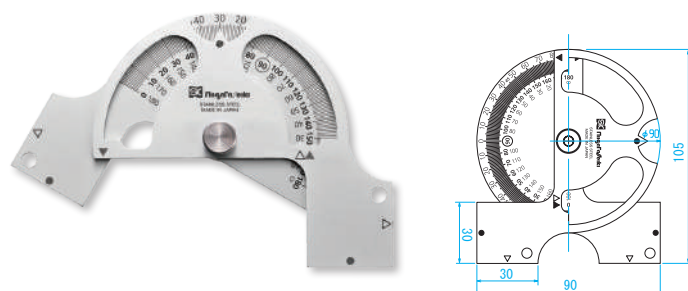
FEATURES

- 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°

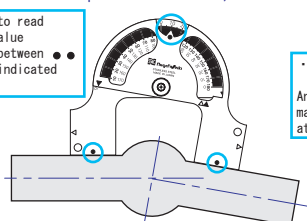
● DIMENSIONS Units: mm



● Example use

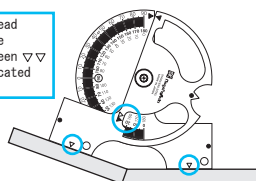
Example 1) Angle measurement of bent butt weld (0~90° : example indicates 10°)

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



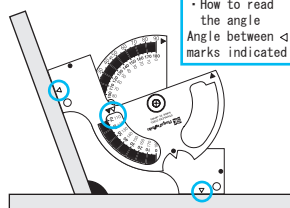
Example 2) Angle measurement of bent Flange and metal plate (0~180° : example indicates 20°)

• How to read the value
Angle between ▼ marks indicated at ▶



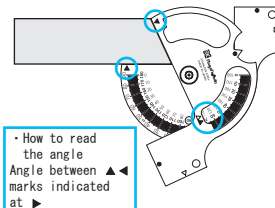
Example 3) Angle of cross weld part (0~180° : example indicates 110°)

• 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

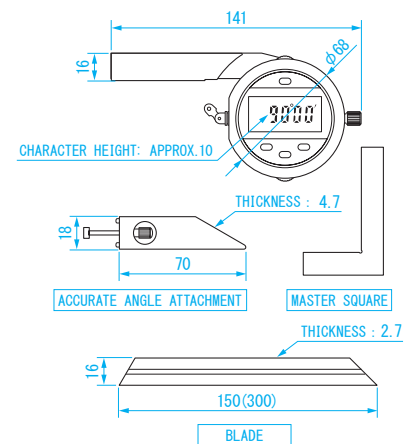
Easy-to-read digital display.

Once setting the reference point (90°), angle measurement can be performed easily.



● DIMENSIONS

Units: mm



USE

- Precise angle measuring instrument used as angle measurement of machine, tooling and fixtures, or for assembly, or as a reference standard

MATERIAL

- Blade: Stainless steel

FEATURES

- Display unit can be switched between [°] or [']
- +—switchable
- Zero setting at desired angle
- Display orientation can be flipped 180°

SPECIFICATIONS

- Measuring range: 360°
- Resolution: 1'•0.01°

POWER

- One CR2032 (lithium) battery included for testing

ACCESSORIES

- Blade 150mm, 300mm ● Accurate angle attachment ● Master square

※ 1 : Quantization Error (± 1 digit) not included

※ 2 : Battery and blade not included

Order No.	Model No.	Accuracy ^{※1}	Weight ^{※2}
151155	DUP-360AN	± 5' (0.08°)	350g