

# 10. Levels

- Carpenter's Squares
- Stainless Steel Rules / Machine Scale
- Aluminum Rules
- Resin Folding Rules / Bamboo Rules
- Squares / Protractors
- Vernier Calipers / Micrometers
- Tape Measures
- Surveying Products
- Scales
- Levels**
- Lasers / Optical Equipment
- Plinkies / Chalklines / Plumbholders
- Circular Saw Guides
- Construction Tools
- Industrial Tools
- Thermometers / Hygrometers / Enclomet / Measuring Instruments
- Outdoor Products
- Magnifying Glasses
- Drawing Tools
- Magnets



## Blue Level PRO

76391



Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
76390	300 mm	65×27	295	4 960910 763906	6	
76391	380 mm	65×27	340	4 960910 763913		
76393	450 mm	65×27	395	4 960910 763937		
76394	600 mm	65×27	500	4 960910 763944		
76395	900 mm	65×27	690	4 960910 763951		
76396	1200 mm	65×27	865	4 960910 763968		
76398	1500 mm	65×27	1,075	4 960910 763982	1	
76400	1800 mm	65×27	1,285	4 960910 764002		

\*Not available in certain areas. Please contact us for details.

## Blue Level PRO with Magnet

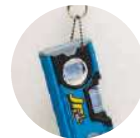


76407

Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
76403	300 mm	65×27	300	4 960910 764033	6	
76404	380 mm	65×27	345	4 960910 764040		
76405	450 mm	65×27	400	4 960910 764057		
76407	600 mm	65×27	510	4 960910 764071		
76408	900 mm	65×27	700	4 960910 764088		
76409	1200 mm	65×27	900	4 960910 764095		
76411	1500 mm	65×27	1,090	4 960910 764118	1	
76412	1800 mm	65×27	1,300	4 960910 764125		

\*Not available in certain areas. Please contact us for details.

## Blue Level Jr.



●Including a ball chain (100 mm·100 mm with magnet)

76331                      76334                      \*Gradient cannot be measured with vial graduations

Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
76330	100 mm	50×22	71	4 960910 763302	6	
76331	100 mm with Magnet	50×22	80	4 960910 763319		
76334	150 mm	50×22	110	4 960910 763340		
76336	150 mm with Magnet	50×22	115	4 960910 763364		
76335	200 mm	50×22	135	4 960910 763357		
76337	200 mm with Magnet	50×22	145	4 960910 763371		

\*Not available in certain areas. Please contact us for details.

Shinwa's levels are made with accuracy within the specifications. Please use equipment with higher accuracy for work that requires greater specifications. Sensitivity means the gradient at which the air bubble starts moving. Accuracy means the tolerance of range that the air bubble indicates.

JIS JIS mark With red numbers cm/shaku (Upper side for Front metric / Lower side for Back shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge  
 Japanese zodiac signs With battery shaku/cm (Upper side for Front shaku / Lower side for Back metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

### Features

- High-visibility vial with clear blue liquid and thick white line



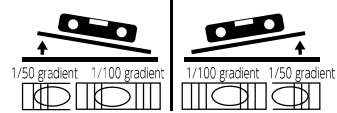
- Luminous resin is added to the vial
- High precision of ±1.0 mm/m for all vials
- Bright blue color-alumite finish



- Mix of H and box-shaped cross section and strong structure gives high accuracy and high durability

- Large vial, larger bubble for easy readings
- 45° vial
- Large side caps protect the level and material object
- V-shape groove on the measurement side for measuring pipes
- Measures 1/50 and 1/100 gradients
- Magnetic model is handy for steel frame work
- Comes with grip holes for models over 600 mm

### Gradient Measurement



\*The size of air bubble varies depending on temperature.

### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

Sensitivity Precision	Sensitivity 0.35 mm/m = 0.0201° Precision ±1.0 mm/m = less than ±0.0573°
Material	Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

### Features

- High precision of ±1.0 mm/m for all vials
- Bright blue color-alumite finish
- Luminous resin is added to the vial
- Mix of H and box shaped cross section and strong structure gives high accuracy and high durability
- V-shape groove on the measurement side for measuring pipes
- Magnetic model is handy for steel frame work
- High precision, high visibility



### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

Sensitivity Precision	Sensitivity 0.35 mm/m = 0.0201° Precision ±1.0 mm/m = less than ±0.0573°
Material	Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

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## Blue Level

76370



\*Gradient cannot be measured with vial graduations

Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76370	300 mm	58×25	260	4 960910 763708	6	
76375	380 mm	58×25	305	4 960910 763753		
76371	450 mm	58×25	360	4 960910 763715		
76372	600 mm	58×25	470	4 960910 763722		
76373	900 mm	58×25	700	4 960910 763739		
76374	1200 mm	58×25	900	4 960910 763746		
76377	1500 mm	58×25	1,075	4 960910 763777	1	
76378	1800 mm	58×25	1,275	4 960910 763784		

## Blue Level with Magnet

76380



\*Gradient cannot be measured with vial graduations

Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76379	300 mm	58×25	360	4 960910 763791	6	
76384	380 mm	58×25	420	4 960910 763845		
76380	450 mm	58×25	460	4 960910 763807		
76381	600 mm	58×25	570	4 960910 763814		
76382	900 mm	58×25	860	4 960910 763821		
76383	1200 mm	58×25	1,060	4 960910 763838		
76385	1500 mm	58×25	1,315	4 960910 763852	1	
76389	1800 mm	58×25	1,490	4 960910 763890		

## Slope Level



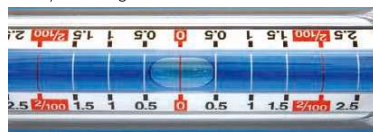
76358

● Fits pipes



76359

● Easy-to-read gradient as the bubble moves widely



Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76358	300 mm	300×34×42	305	4 960910 763586	4	
76355	450 mm	450×34×42	390	4 960910 763555		
76359	600 mm	600×34×42	535	4 960910 763593		

\*Not available in certain areas. Please contact us for details.

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 Japanese zodiac signs With battery shaku/cm (Upper side for Front shaku / Lower side for Back metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging role Letters in English With direction arrow With grid scale Plastic lens

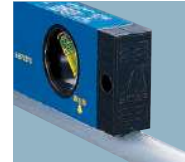
### Features

- Large vial, larger bubble for easy readings
- 45° vial
- Large side caps protect the level and material object
- V-shape groove on the measurement side for measuring pipes
- Magnetic model is handy for steel frame work

#### Large vial



#### Large side cap



#### Strong magnets



#### V-shape groove

### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

Sensitivity Precision	 Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432°
Material	Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

### Features

- Washable inner part
- Measures horizontality and five different gradients (0.5/100, 1/100, 1.5/100, 2/100, 2.5/100)
- These models can measure continuous gradients
- Can be used on flat surfaces as well
- Curved measurement side improves stability
- Vial with luminous sheet for better readability

### Use

- For verification and adjustment of gradient in installation of drain pipes

### Specifications

Precision	±1.5 mm/m
Material	Body: Aluminum Level Vial: Glass Side Cap: Rubber Liquid: Petroleum liquid Cover: ABS resin, polycarbonate resin

## Precise I-Beam Level

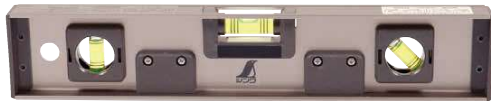
76315



Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
76315	150 mm	55×25	115	4 960910 763159	6	
76316	230 mm	55×25	170	4 960910 763166	6	
76318	300 mm	55×25	215	4 960910 763180	6	
76319	380 mm	55×25	270	4 960910 763197	6	
76320	450 mm	55×25	315	4 960910 763203	6	
76321	600 mm	55×25	415	4 960910 763210	6	
76322	750 mm	55×25	510	4 960910 763227	6	
76323	900 mm	55×25	610	4 960910 763234	6	
76324	1200 mm	55×25	805	4 960910 763241	1	

## Precise I-Beam Level with Magnet

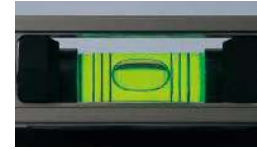
76301



Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
76308	150 mm	55×25	140	4 960910 763081	6	
76310	230 mm	55×25	200	4 960910 763104	6	
76301	300 mm	55×25	280	4 960910 763012	6	
76302	380 mm	55×25	345	4 960910 763029	6	
76303	450 mm	55×25	395	4 960910 763036	6	
76304	600 mm	55×25	500	4 960910 763043	6	
76305	750 mm	55×25	600	4 960910 763050	6	
76306	900 mm	55×25	675	4 960910 763067	6	

### Features

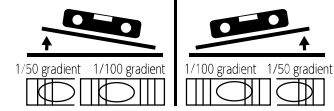
- Horizontal vial has three base lines on both sides to measure horizontal, 1/50 and 1/100 gradients
- Larger vial, larger bubble for easy readings
- Measures 45° besides horizontal and vertical \*except for 150 mm model
- V-shape groove on the measurement side for measuring pipes
- Large vial with six-lined luminous sheet



- Magnetic model has strong covered magnets for steel frame work and welding work



### Gradient Measurement



\*The size of air bubble varies depending on temperature.

### Use

- For verification of horizontal, vertical, 45°, 1/50 and 1/100 gradients in plumbing, building and engineering work, etc.

### Specifications

Sensitivity Precision	<p>(Horizontal) Sensitivity 0.35 mm/m = 0.0201° Precision ±1.0 mm/m = less than ±0.0573°</p> <p>(Vertical/45°) Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432°</p>
Material	Body: Aluminum Vial: Acrylic resin Liquid: Petroleum liquid

## Handy Level MEGA-MAG with Magnet

73130



- Fixed hook easily attaches to carabiner

- Safety cord can be attached to movable hook

73133



\*Gradient cannot be measured with vial graduations

Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
73130	100 mm White	50×30	130	4 960910 731301	6	
73131	100 mm Black	50×30	130	4 960910 731318	6	
73132	150 mm White	50×30	150	4 960910 731325	6	
73133	150 mm Black	50×30	150	4 960910 731332	6	

\*Not available in certain areas. Please contact us for details.

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## Handy Level Revo



### Features

- Clear blue high-precision large vial
- V-shape groove for measuring pipe
- Triple model has vials with luminous sheets
- Magnetic model has strong neodymium magnet. Convenient for steel frame work.
- Portable pocket size



### Use

- For verification of horizontality, verticality, and 45° (except 76426/76427)

### Specifications

	76424	76425	76426	76427	76428	76429
Sensitivity	Sensitivity 0.5 mm/m = 0.0286°					
Precision	Precision ±2.5 mm/m = less than ±0.1432°					
Material	Body: Aluminum Vial: Acrylic resin Liquid: Petroleum liquid			Body: ABS resin, aluminum Vial: Acrylic resin Liquid: Petroleum liquid		

\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76424	Single White	72.5x72.5x18	32	4 960910 764248	6	
76425	Single Blue	72.5x72.5x18	32	4 960910 764255		
76426	Double	95x45x22	36	4 960910 764262		
76427	Double with Magnet	95x45x22	44	4 960910 764279		
76428	Triple	120x53.5x16	58	4 960910 764286		
76429	Triple with Magnet	120x53.5x16	62	4 960910 764293		

\*Not available in certain areas. Please contact us for details.

## Handy Level Light



### Features

- Ultra lightweight and portable level
- Strap hole (76342)
- Ball chain convenient for carrying (76048)



Only on Light model

### Use

- For verification of horizontality, verticality

### Specifications

	76342	76048
Sensitivity	Sensitivity 0.5 mm/m = 0.0286°	
Precision	Precision ±2.5 mm/m = less than ±0.1432°	
Material	Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid	Body: ABS resin, aluminum Vial: Acrylic resin Liquid: Petroleum liquid

\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76342	100 mm	100x50x19	39	4 960910 763425	10	

\*Not available in certain areas. Please contact us for details.

## Handy Level with Magnet



\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76048	B 100 mm	100x46x20	87	4 960910 760486	6	

## Slim Level



Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76340	200 mm White with Magnet	200×40×14	68	4 960910 763401	6	
76332	200 mm White with Magnet on Back Side	200×40×15	75	4 960910 763326	6	

\*Gradient cannot be measured with vial graduations.

\*Not available in certain areas. Please contact us for details.

### Features

- Portable and convenient slim shape level
- Magnet covers nearly all of the measurement side for secure fastening to metal surfaces, etc.
- Rear magnet convenient for adjusting position of wall mounts, etc. (76332)
- 45° vial
- Vial with luminous sheet

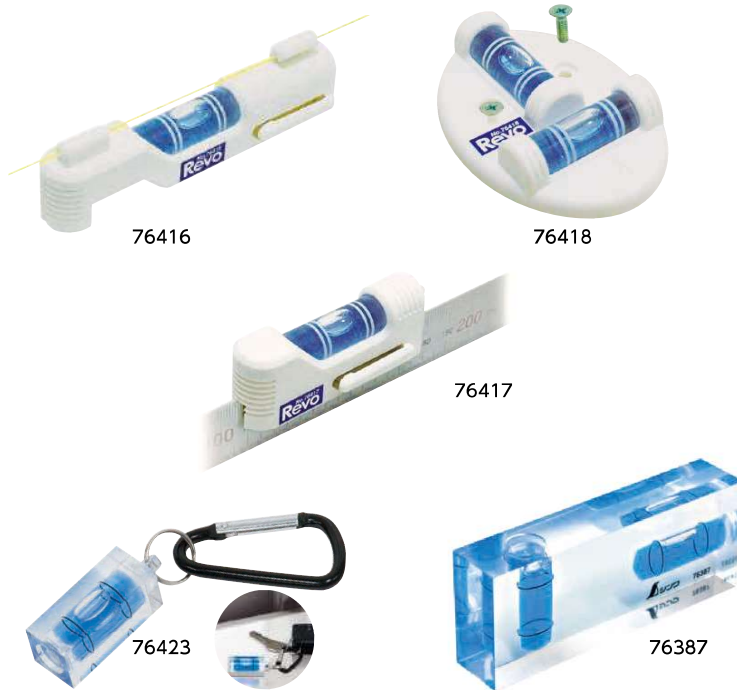
### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

Sensitivity	Sensitivity 0.5 mm/m = 0.0286°
Precision	Precision ±2.5 mm/m = less than ±0.1432°
Material	Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

## Mini Level Revo



Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
76416	Lineclip Model	100×19×26	15	4 960910 764163	10	
76417	for Rule and Square	71×19×25	17	4 960910 764170	10	
76418	T-shaped Model	80×55×15	21	4 960910 764187	10	
76423	Keyring Model	42×15×15	12	4 960910 764231	10	
76387	Clear Cube Model	75×30×15	38	4 960910 763876	10	

\*Gradient cannot be measured with vial graduations.

\*Not available in certain areas. Please contact us for details.

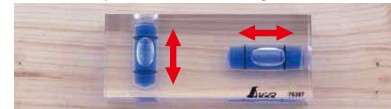
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### Features

- Line clip model
- For measuring leveling string or pipe by using V-shape groove
- Can be used on flat surfaces as well
- Portable with pocket clip
- For rule and square
- Attachable on rule and square
- Can be used on flat surfaces as well
- Portable with pocket clip
- T-shape oval model
- Measures four directions at the same time
- Attach with screws to machine



- Key chain model
- Portable with large carabiner
- Clear Cube
- All 6 sides have been processed as measuring surfaces
- Place it flat to simultaneously measure two directions horizontally: front/back and left/right



### Use

- For verifying horizontality

### Specifications

	76416	76417	76418	76423	76387
Sensitivity	Sensitivity 0.5 mm/m = 0.0286°				
Precision	Precision ±2.5 mm/m = less than ±0.1432°				
Material	Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid		Body: Acrylic resin Liquid: Petroleum liquid		

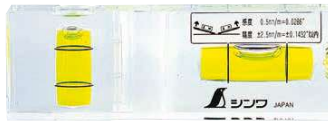
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## Mini Level



76037



76046

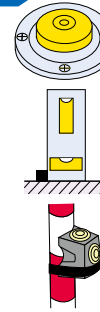


76060

\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
76037	A Circular Model	φ45×11	9	4 960910 760370	10	
76046	D Flat Model	75×25×15	30	4 960910 760462		
76060	H Cube Model	50×27×35	21	4 960910 760608		

### Features



- A circular model
- Attach with screws to machine or equipment
- D flat model
- Whole surface can be used as measurement side. It can verify horizontal and perpendicular.
- H cube model
- Measures measurement pole with band

### Use

- For verification of horizontality (76037)
- For verification of horizontality, verticality (76046/76060)

### Specifications

Sensitivity Precision	Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432°
Material	Body (A/D): Acrylic resin Body (H): ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

## Round Shape Vial



76328



76530



76329



76531

\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
76328	A φ11 Clear 2 pc-pack	φ11×8.5	0.7x2	4 960910 763289	10	
76329	B φ16 Clear 2 pc-pack	φ16×8.5	1.7x2	4 960910 763296		
76530	φ11 Blue 2 pc-pack	φ11×8.5	0.8x2	4 960910 765306		
76531	φ16 Blue 2 pc-pack	φ16×8.5	1.4x2	4 960910 765313		

### Features

- Various uses such as leveling for part of machine, camera's tripod, and recorder's turntable

### Use

- For verification of horizontality

### Specifications

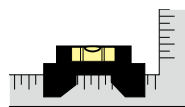
	76328	76329	76530	76531
Sensitivity Precision	14 mm/m = 0.80°	7 mm/m = 0.40°	1 mm/m = 0.0573°	0.5 mm/m = 0.0286°
Material	Body: Acrylic resin Liquid: Petroleum liquid			

\*Sensitivity for Round Shape Vial indicates required gradient to move the air bubble by 1mm.

## Level for Square



76503



\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
76503	Level for Square	63×30×20	27	4 960910 765030	12	

### Features

- Measures by attaching to square
- Can be used on flat surfaces as well

### Use

- For verification of horizontality, verticality

### Specifications

Sensitivity Precision	Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432°
Material	Body: Aluminum Vial: Acrylic resin Liquid: Petroleum liquid

## Post Level with Magnet



76339



With scales  
 Rubber stopper band

\*Gradient cannot be measured with vial graduations.

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
76339	Post Level	128×90×90	74	4 960910 763395	6	

### Features

- Can be used to draw lines in right angle and 45°
- Attached magnets make it ideal for steel frame and steel-pipe work
- Stopper band included



### Use

- For marking vertical line on pillar or piling

### Specifications

Sensitivity Precision	Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432°
Material	Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

\*Not available in certain areas. Please contact us for details.

JIS JIS mark With red numbers cm/shaku (Upper side for Front metric / Lower side for Back shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge

Japanese zodiac signs With battery shaku/cm (Upper side for Front shaku / Lower side for Back metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging role Letters in English With direction arrow With grid scale Plastic lens

## Blue Level Digital



76343



76348



76327

Item Code	Description	Length×Thickness (mm)	Weight (g)	JAN Code	Packing Unit	Package
76343	350 mm	65×27	356	4 960910 763432	6	
76344	350 mm with Magnet	65×27	371	4 960910 763449		
76348	450 mm	65×27	467	4 960910 763487		
76349	450 mm with Magnet	65×27	473	4 960910 763494		
76326	600 mm	65×27	555	4 960910 763265		
76327	600 mm with Magnet	65×27	580	4 960910 763272		

\*Not available in certain areas. Please contact us for details.

### Features

- Backlit LCD display
- Glows blue with luminous resin
- Luxurious color-aluminate finish
- Alarm goes off on horizontal and perpendicular
- Also measures rise, angle, gradient
- If the level body is used in reverse, the display automatically shows in reverse as well
- Calibration function
- Battery life indicator
- Convenient HOLD function
- Zero set function that enables a base angle to be set
- Auto power off function
- Attached magnets make it ideal for steel frame work



### Use

Rise in 1 m	Angle	%
Mainly for building work and plumbing work	Mainly for engineering work	Mainly for reference of gradient for road work

\*Choose from three displays

### Specifications

Vial Sensitivity, Precision	Sensitivity 0.35 mm/m = 0.0201° Precision ±1.0 mm/m = less than ±0.0573°
Digital Display Precision	0°, 90° Angle: ±0.1° Gradient: ±0.2% Rise: ±2 mm/m
	Other Degrees Angle: ±0.2° Gradient: ±0.7% Rise: ±4 mm/m (300 mm UP: ±7 mm/m)
Minimum Unit for Digital Display	Angle: 0.1° Gradient: 0.1% Digital Level: 1 mm/m
Power Source	1x 9V battery (Battery included is for trial use only and may not last as long)
Use Temperature	0 - 50°C
Material	Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid

## Digital Angle Meter

76447



Neodymium magnet (three sides)  
● Strong neodymium magnets on three sides

76825



76826



Neodymium magnet (base)  
● Strong neodymium magnets on base

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Package
76447	Mini with Magnet	56×56×30	189	4 960910 764477	1	
76825	Digital Angle Meter II Dust/Waterproof	151×60×31	280	4 960910 768253		
76826	Digital Angle Meter II Dust/Waterproof with Magnet	151×60×31	280	4 960910 768260		

### Features

- Convenient for measuring from a reference point by setting the point from any angle
- Hold function allows measurement when display cannot be seen
- Mini magnet
- Strong neodymium magnet on three sides
- Switches indication for angle (°) or gradient (%)
- Digital Angle Meter II
- Dustproof and waterproof under IP65 specifications, making it useful for angle measurements in various places
- Switches digitally between display of degree, %, and mm/m. With backlight function for use in dark places.
- BEEPS when horizontal or vertical

### Use

- For work installing machines or equipment

### Specifications

	76447	76825	76826
Range	90° × 4 directions (360°)		
Minimum Indication	Angle: 0.1° Inclinaton: 0.1%		
Precision	±0.2° (±3.5 mm/m)		
Use Temperature	0 - 40°C		
Power Source	1x 9V battery (Battery included is for trial use only and may not last as long)		
Auto Power Off	5 minutes		
Material	Body: Zinc alloy Panel: Polycarbonate resin		
Accessory	Screwdriver		
Range	90° × 4 directions (360°)		
Minimum Indication	Angle: 0.05° Gradient: 0.1% Rise: 1 mm/m		
Precision	0°-90°: ±0.05° Other Degrees: ±0.15°		
Use Temperature	-10 - 50°C		
Power Source	2x AAA Alkaline batteries (Batteries included are for trial use only and may not last as long)		
Auto Power Off	5 minutes		
Dust/water proof	IP65		
Material	Body: ABS resin, aluminum		
Accessory	Holder case		