

## Planimeter

PLACOM

### ADVANCED FUNCTIONS

Advanced features for exceptional cost performance meet all of your present and future needs.



**KP-21C**  
New era of planimeter



Data out-put

Function key

Tracer arm

Plot-key

#### ► FEATURES

- Area, length, segmental length and coordinates
- Removable printer for recording results
- The ability to upload data and transfer it to computers

#### ► SPECIFICATIONS

Model	KP-21C
Measurement functions	Roller type Area, Length, Segmental length, Coordinates
Measurements	Metric : mm, cm, m, km Imperial : in, ft, yd, miles
Display	16 digit x 2 line dot matrix LCD
Interface	Exclusive removable printer or RS232C (option)
Measuring range	10m (horizontal maxim) 380mm (vertical maxim)
Minimum measuring length	0.05mm
Accuracy	within $\pm 0.1\%$
Power	Rechargeable NiCd battery, A/C power supply
Size	430 x 159 x 46mm (with printer)
Weight	970g



**KP-80N/82N**  
Polar model

**KP-90N/92N**  
Roller model

#### ► FEATURES

- Measurement by 6 digits pulse count
- Maximum cumulative measurement value of 10m<sup>2</sup>
- Easy conversion function of unit and scale
- Hold memory function
- Automatic shifting of unit to upper unit
- Average value measurement
- Measurement of an area with different lateral & longitudinal scale
- Auto-power-off function for energy saving

#### ► SPECIFICATIONS

Model	KP-90N	KP-92N	KP-80N	KP-82N
Type	Roller / computing	Roller / single	Polar / computing	Polar / computing
Display	Liquid crystal, 8-digit figures 13 symbols	Liquid crystal, 8-digit figures 6 symbols	Liquid crystal, 8-digit figures 13 symbols	Liquid crystal, 8-digit figures 6 symbols
Symbol	Batt-E, Scale, Memo, Hold, cm <sup>2</sup> , m <sup>2</sup> , km <sup>2</sup> , in <sup>2</sup> , ft <sup>2</sup> , etc.	Batt-E, Memo, Hold, cm <sup>2</sup> , ft <sup>2</sup> , etc.	Batt-E, Scale, Memo, Hold, cm <sup>2</sup> , m <sup>2</sup> , km <sup>2</sup> , in <sup>2</sup> , ft <sup>2</sup> , etc.	Batt-E, Memo, Hold, cm <sup>2</sup> , in <sup>2</sup> , etc.
Converting function	Unit & scale value	Unit (in <sup>2</sup> , cm <sup>2</sup> )	Unit & scale value	Unit (in <sup>2</sup> , cm <sup>2</sup> )
Accumulated measuring value	Maximum 10m <sup>2</sup> (scale 1:1)	Maximum 10m <sup>2</sup> (scale 1:1)	Maximum 10m <sup>2</sup> (scale 1:1)	Maximum 10m <sup>2</sup> (scale 1:1)
Measuring range	Vertical : 325mm Horizontal : Unlimited	Vertical : 325mm Horizontal : Unlimited	800mm $\phi$ *In case of setting pivot point inside pattern	800mm $\phi$ *In case of setting pivot point inside pattern
Accuracy	within $\pm 0.2\%$ (within $\pm 2 / 1,000$ pulses)	within $\pm 0.2\%$ (within $\pm 2 / 1,000$ pulses)	within $\pm 0.2\%$ (within $\pm 2 / 1,000$ pulses)	within $\pm 0.2\%$ (within $\pm 2 / 1,000$ pulses)
Power	1. Built-in NiCd battery (rechargeable through AC adaptor) 2. AC adaptor 100V ~ 240V	1. Built-in NiCd battery (rechargeable through AC adaptor) 2. AC adaptor 100V ~ 240V	1. Built-in NiCd battery (rechargeable through AC adaptor) 2. AC adaptor 100V ~ 240V	1. Built-in NiCd battery (rechargeable through AC adaptor) 2. AC adaptor 100V ~ 240V
Operating time	approx. 30 hours	approx. 30 hours	approx. 30 hours	approx. 30 hours
Battery charging time	approx. 15 hours	approx. 15 hours	approx. 15 hours	approx. 15 hours
Main unit weight	750g	750g	780g	780g

#### ► STANDARD ACCESSORIES (KP-90N , KP-92N , KP-80N , KP-82N)

- Supplied AC adaptor
- Plastic case

PRODUCT NAME	MODEL	PKG QTY	MOQ	CODE NO.	C/O
Planimeter Printer Model	KP-21C	1	1	212122	JP
Planimeter Roller Model	KP-90N	1	1	082316	JP
Planimeter Roller Model	KP-92N	1	1	082317	JP
Planimeter Polar Model	KP-80N	1	1	082318	JP
Planimeter Polar Model	KP-82N	1	1	082319	JP

## Planimeter

### MARBLE PX-10S

#### STYLISH & HIGH PERFORMANCE

Marble focus on not only design but operability and functionality.



#### ✓ CHECK

##### EASY OPERATION

Plot key is now right next to the trace lens, allowing you to operate the new Marble easily with one hand.



##### ► FEATURES

- Various scale available

##### ► SPECIFICATIONS

Measuring functions	: Area, line, and side length
Measuring units	: mm, cm, m, km, in, ft, acre/yd
Measuring range	: 300mm x 10m
Accuracy	: ± 0.1% (for an area of 100 x 100mm)
Display	: LCD 16 digits on lines
Minimum line reading	: ± 0.05mm
Power	: Internal nickel metal hydrate battery AC charger & adapter
Operating time	: 20 hours
Charging time	: 15 hours
Dimensions	: 250 x 110 x 40mm
Weight	: 630g (w/o case)
Resolution	: ± 0.05mm

##### ► STANDARD ACCESSORIES

- Carrying case
- AC charger & adapter

PRODUCT NAME	MODEL	PKG QTY	MOQ	CODE NO.	C/O
Planimeter Marble	PX-10S	1	1	212542	JP

## Laser Plumb Bob

### DPV03 / WPV02

#### VERTICAL FINDER

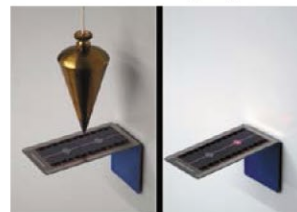
Pendulum laser bring the right vertically.



Extension pole  
(DPV03 only)

#### ✓ CHECK

Magnetic damper slow down and stop the pendulum swing. The vertical level can be checked from any angles.



Visible at any angle



Turnbuckle adjustable

##### ► FEATURES

- For checking the vertically of post
- Magnetic damper
- Unaffected by wind
- Compact

##### ► STANDARD ACCESSORIES

- Extension pole (DPV03)
- Case (DPV03)
- Target plate (DPV03)
- Target plate x2 (WPV02)

##### ► SPECIFICATIONS

Model	DPV03	WPV02
Accuracy	down ± 1mm / 3m	up ± 15mm / 15m down ± 1mm / 3m
Mechanism	X-Y Axis gimbal system	X-Y Axis gimbal system
Self-leveling	within 2°	within 2°
Compensator	Magnetic damper	Magnetic damper
Output	Less than 1mW	Less than 1mW
Power	AAA batteries x 2	AAA batteries x 2
Operating time	approx. 34h	approx. 17h
Size	36 x 72.7 x 94mm	36 x 72.7 x 94mm
Weight	228g (incl. batteries)	228g (incl. batteries)

PRODUCT NAME	MODEL	PKG QTY	MOQ	CODE NO.	C/O
Laser Plumb Bob Down Point	DPV03	1	1	221029	JP
Laser Plumb Bob Up & Down Point	WPV02	1	1	221479	JP