

เครื่องวัดเนื้อที่ (Planimeter) ชนิด อิเล็กทรอนิกส์

ยี่ห้อ : KOIZUMI

รุ่น : Placom KP-90N

ผลิตภัณฑ์ : ประเทศญี่ปุ่น

รายการคุณลักษณะ

1. เป็นเครื่องคำนวณแบบ อิเล็กทรอนิกส์
2. การถ่วงน้ำหนักและการเคลื่อนตัวเป็นแบบล้อเลื่อน (Roller Type)
3. มีฟังก์ชันต่างๆเพื่อการคำนวณ สามารถปรับเปลี่ยนค่าหน่วย (Unit) การวัดและอัตราส่วน (Scale) ของแผนที่ได้
4. จอแสดงผลแบบ Liquid Crystal แสดงผลได้ 8 ตำแหน่ง แสดงสัญลักษณ์ได้ 10 แบบ
5. คำนวณพื้นที่สะสมได้มากที่สุดถึง 10 ตารางเมตร (ที่อัตราส่วน 1 ต่อ 1)
6. ช่วงการทำงาน
 - 6.1 แนวตั้ง ไม่น้อยกว่า 325 มิลลิเมตร
 - 6.2 แนวราบ ไม่น้อยกว่า 30 เมตร
7. ความผิดพลาดไม่เกิน $\pm 0.2 \%$
8. แบตเตอรี่เป็นแบบประจุไฟใหม่ได้ หรือ ใช้ไฟตรงจากไฟบ้าน



KOIZUMI**DIGITAL PLANIMETER**

PLACOM

N-Series

Newest Models of "PLACOM" N-Series have made the excitingly highest attainment in the history of Planimeters ever made. Measuring capacity is remarkably enlarged. Measurement by 6-digit pulse count enables to measure 100 times larger accumulative area than ordinary planimeters. Easy calculations of Cumulative and Mean Value Measurement. Conversion of Unit and Scale value is made by easy operation. "WONDER", it is a most worthy word to be given to this "PLACOM" N-Series.

**PLACOM KP-90N****PLACOM KP-92N****PLACOM KP-80N****KP-82N**

DIGITAL PLANIMETER **PLACOM**

N-Series with the most advanced functions and perfect reliability.



Applications

- Construction and Civil Engineering
- Land Developing Planning
- Forestry Area • Machine Designing
- Ship Designing • Medical Research
- Agriculture • Data Analysis in Statistics
- Teaching Materials in school.

Special Features of PLACOM N-Series.

Measurement by 6-digit pulse count

This N-Series measures the area by pulse count of 6-digit. This method enables a larger cumulative measurement of area (up to 10m^2).

Maximum Cumulative Measurement Value of 10m^2 .

With the measurement by 6-digit pulse count, the N-Series Planimeter can measure a larger area by 100 times than ordinary planimeter.

The conventional planimeter has a maximum cumulative area to measure only 0.1m^2 . So, in measurement, at every measurement value of 0.1m^2 , the display is to be reset to 0. This requires to register the numbers of how many times these resettings are occurred.

With the New PLACOM N-Series, there is no need of these troublesome procedures.

Function of Easy Conversion of the Value of Unit and Scale.

KP-90N and KP-80N can convert easily the measured area value into a new area value in a newly desired unit and with a newly desired scale value.

KP-92N and KP-80N can convert the unit between in^2 and cm^2 .

Hold Memory Function

In Cumulative Measurement, this Hold Memory function is effectively used.

If an error occurs in measuring No. "N"th area, press C/AC key. Then the pulse count value measured up to "N-1"th appears. No need of another measurements from the 1st area to "N-1"th area again.

Automatic shifting of Unit to upper Unit

When the measured area value overflows the displayed figures of 8 digits, the measured area value is calculated and displayed by an upper unit. When the overflows is occurred in the uppermost unit, km^2 , acre, the measurement can be continued by pulse count display.

Mean (Average) Value Measurement.

In order to get better result of measurement, Mean Value Measurement is recommended. This measurement can be easily done on this N-Series.

Measurement of an Area with different lateral and longitudinal scale.

DC or AC power supply is available.

Auto-Power-Off function for energy saving

Specifications of PLACOM N-Series

Specifications	Model	KP-90N	KP-92N	KP-80N	KP-82N
Type	Roller Type			Polar Type	
	With Computing Function	Single Function		With Computing Function	Single Function
Display	Liquid Crystal, 8-digit Figures				
	10 Symbols	5 Symbols		10 Symbols	5 Symbols
Symbol	Batt-E, SCALE, MEMO, HOLD cm ² , m ² , km ² , in ² , ft ² , acre,	Batt-E, MEMO, HOLD cm ² , in ²		Batt-E, SCALE, MEMO, HOLD, cm ² , m ² , km ² , in ² , ft ² , acre,	Batt-E, MEMO, HOLD cm ² , in ²
Converting Function	Unit and Scale value	Unit (in ² , cm ²)		Unit and Scale value	Unit (in ² , cm ²)
Accumulated Measuring Value	Maximum 10m ² (scale 1:1)				
Measuring Range	• Maximum vertical width: 325mm • Horizontal roller rotating length: 30m			• Maximum, with the pole put outside the pattern: 300ømm • Maximum, with the pole put inside the pattern: 800ømm	
Accuracy	Within ± 0.2% (within ±2/1,000 pulses)				
Power Supply	(1) Built-in NiCd Storage Battery (rechargeable through AC Adapter) (2) AC100V 120V, 220V and 240V, (using the supplied AC Adapter) (Provided with auto power-off function)				
Operating Duration	Approx. 30 hours of continuous operation				
Battery Charging Time	Approx. 15 hours				
Main Unit Weight	750g	750g		780g	780g
Accessories	Supplied AC Adapter and Plastic Case				

*These specifications are subject to change for design improvements without prior notice.

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