

8-3 測定範囲および精度

精度保証条件: 23°C±5°C 80%RH 結露のないこと

ファンクション	レンジ	確 度	内部抵抗	備 考
直流電圧 DCV	400.0mV	±(0.5%rdg+2dgt)	100MΩ以上	
	4.000V	±(0.9%rdg+2dgt)	約11MΩ	
	40.00V		約10MΩ	
	400.0V			
	1000V			
交流電圧 ACV	400.0mV	* ±(1.2%rdg+5dgt)	100MΩ以上	・ 確度保証周波数範囲 400mV : 45~100Hz 4V以上 : 40~500Hz
	4.000V		約11MΩ	
	40.00V		約10MΩ	
	400.0V			
	750.0V	±(5%rdg+5dgt)		
抵 抗 Ω	400.0Ω	±(0.8%rdg+2dgt)	●開放電圧は約0.4V ●測定電流は非測定抵抗の抵抗値によって変化します。 ●400ΩレンジはREL機能を使用し、テストリード等の抵抗をキャンセル後に測定した確度	
	4.000kΩ			
	40.00kΩ			
	400.0kΩ			
	4000kΩ	±(2.0%rdg+2dgt)		
40.00MΩ	±(5.0%rdg+2dgt)			
直流電流 DCA	400.0mA	±(1.4%rdg+2dgt)	約1Ω	
	12.00A	±(2.0%rdg+2dgt)	約0.01Ω	
交流電流 ACA	400.0mA	* ±(1.8%rdg+5dgt)	約1Ω	確度保証周波数範囲 AC : 40~500Hz
	12.00A	* ±(2.5%rdg+5dgt)	約0.01Ω	
導通チェック	・ 約40Ω以下でブザーが発音します。 ・ 開放電圧 : 約0.4V			
ダイオードテスト	・ 開放電圧 : 約2.2V~3.3V			
温 度 ℃	±(1%rdg+4.8℃)		別売付属品 T-300PC 温度プローブ使用	

rdg: reading(読み取り値) dgt: digits(最下位けた) * 正弦波交流における精度

◎精度計算方法

例) 直流電圧測定(DCmV)

真 値: 100.0mV

レンジ精度: 400mVレンジ... ±(0.5%rdg+2dgt)

誤 差: ±(100.0[mV]×0.5%+2[dgt])=±0.7[mV]

表 示 値: 100.0[mV]±0.7[mV] (99.3~100.7mVの範囲内)

ここに掲載した製品の仕様や外観は改良等の理由により、予告なしに変更することがありますのでご了承ください。

[1] SAFETY PRECAUTIONS: Before use, read the following safety precautions

This instruction manual explains how to use your multimeter PC10 safely. Before use, please read this manual thoroughly. After reading it, keep it together with the product for reference to it when necessary.

The instruction given under the heading '⚠WARNING' '⚠CAUTION' must be followed to prevent accidental burn or electrical shock.

1-1 Explanation of Warning Symbols

The meaning of the symbols used in this manual and attached to the product is as follows.

⚠: Very important instruction for safe use.

- The warning messages are intended to prevent accidents to operating personnel such as burn and electrical shock.
- The caution messages are intended to prevent damage to the instrument.

⚡: Dangerous voltage (Take care not to get an electric shock in voltage measurement.)

DC: DC ~: AC Ω: Resistance

•••: Buzzer •: Diode ⊥: Ground

+ : Plus - : Minus ⊕: Fuse

□: Double insulation

1-2 Warning Instruction for safe use

⚠ WARNING

To ensure that the meter is used safely, Be sure to observe the instruction when using the instrument.

1. Never use meter on the electric circuit that exceed 3k VA.
2. Pay special attention when measuring the voltage of AC 30 Vrms (42.4 Vpeak) or DC 60V or more to avoid injury.
3. Never apply an input signals exceeding the maximum rating input value.

4. Never use meter for measuring the line connected with equipment (i.e. motors) that generates induced or surge voltage since it may exceed the maximum allowable voltage.
5. Never use meter if the meter or test leads are damaged or broken.
6. Never use uncased meter.
7. Be sure to use a fuse of the specified rating or type. Never use a substitute of the fuse or never make a short circuit of the fuse.
8. Always keep your fingers behind the finger guards on the probe when making measurements.
9. Be sure to disconnect the test pins from the circuit when changing the function or range.
10. Never use meter with wet hands or in a damp environment.
11. Never open tester case except when replacing batteries or fuse. Do not attempt any alteration of original specifications.
12. To ensure safety and maintain accuracy, calibrate and check the tester at least once a year.
13. Indoor use.

1-3 Maximum Overload Protection Input

Function	Input	Maximum rating input value	Maximum overload protection value
DCV ACV	V · Ω · \rightarrow	* DC1000V, AC750V	DC1000V, AC 750V or PEAK MAX. 1000V
Ω · \rightarrow · \rightarrow	\rightarrow · mA	Δ Voltage and current input prohibited	DC, AC 500V or PEAK MAX. 700V
DC/AC 400mA	, COM	DC/AC 400mA	0.5A/250V Fuse protection
DC/AC 12A	12A, COM	DC/AC12A 30sec.	12A/250V Fuse protection

* The maximum rating input voltage in the time that connected to the personal computer does to DC/AC 250V. (peak max. 300V)

* The maximum rating input voltage in the time that used the AC adapter does to DC/AC100V. (peak max. 140V)

[2] APPLICATION AND FEATURES

2-1 Application

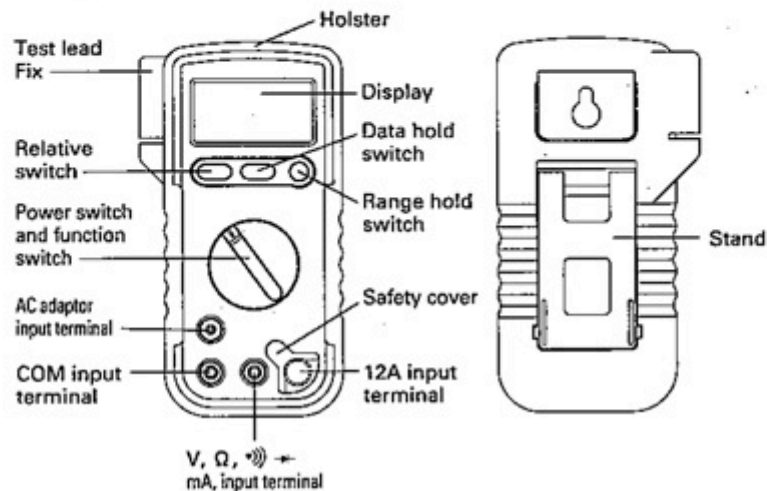
This instrument is portable multimeter designated for measurement of weak current circuit.

2-2 Features

- The instrument has been designed in accordance with the safety standard IEC 1010-1.
- 4000 counts and circular bar graph available.
- Data hold and range hold has adhered.
- Auto power off (30min.)
- RS232C interface
- Main unit case and the circuit board is made of fire retarding materials.

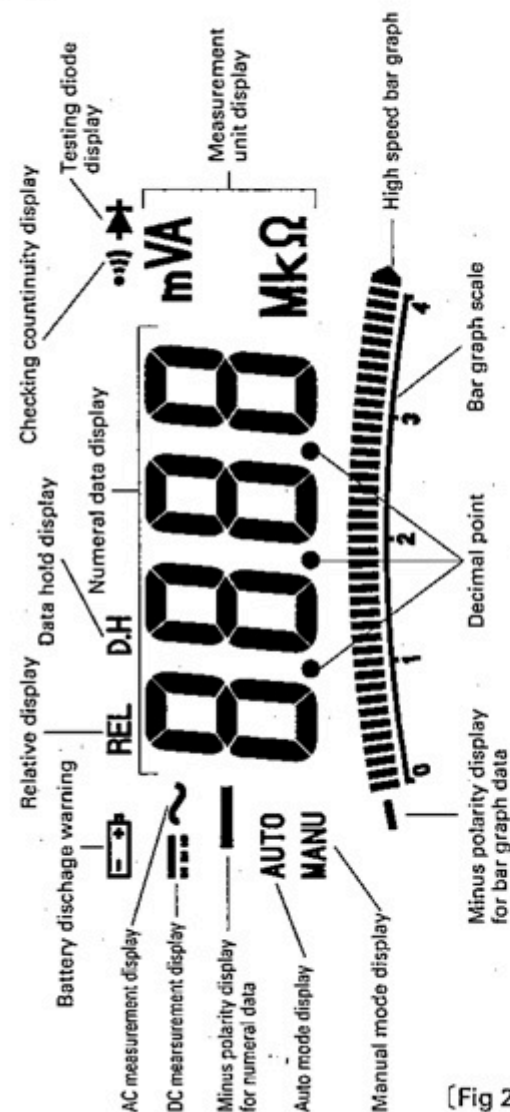
[3] NAME OF COMPONENT UNITS

3-1 Multimeter, Test leads



[Fig 1]

3-2 Display



[Fig 2]

[4] Description of Functions

4-1 Switch and description

○Power switch and function switch

Turn this switch to turn on and off the power and to select the functions of V, Ω , dB , mV , mA, 12A.

○Relative measurement switch(REL)

Pressing REL switch lights up REL mark. Suppose that actual value is X1 when REL switch is pressed. Then, value of X-X1 is displayed for actual input value X after that. Each time pressing REL switch, value of X1 is updated. To cancel the function, hold down REL switch until REL mark is cleared from display.

○Range hold switch

Pressing this switch once sets the manual mode and the range is fixed. Once the manual mode is set, the range moves each time this switch is pressed. Checking the unit on the display and the place of the decimal point, select a desired range. To return to the auto mode, keep pressing this switch until [MANU] on the display disappears.

○Data hold switch

When this switch is pressed, the data display at that time continues ([DH] lights on the display). When the measuring input changes, the display will not change.

When this switch is pressed again, the hold status is canceled you can return to the measuring status. ([DH] on the display disappears.)

○Auto power off

This equipment incorporates an auto power off which turns off the display in about 30 minutes to save power. If you want to continue to use the equipment, press the DH switch. To cancel auto power off for long time measurement, turn function switch from OFF position to position of desired function while holding down D.H switch. Then, release D.H switch approx. 3sec. After.

4-2 Connection with the personal computer

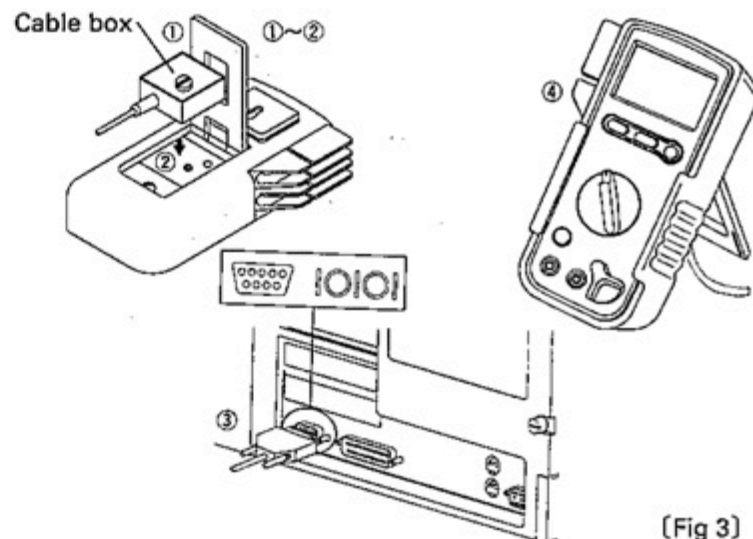
⚠ WARNING

Maximum input voltage in the event that is connect with computer is DC · AC250V. (AC voltage is regulated by rms value of sinusoidal wave. Peak max. 300V)

The DMM data communications that used RS232C interface are produced. The PCLink software and connection cable of the optional accessories are necessary.

<Connection of the multimeter and cable>

- ①The stand that is in the reverse side of a multimeter is opened.
- ②Attach the box part of cable to the multimeter.
- ③The opposite side of cable is connected to the computer.
- ④Please use and please set up the stand when use it.



[Fig 3]

When communicate a personal computer long time (30 minutes more than long), Auto power off function can be canceled. See P.32 [4] Auto power off.

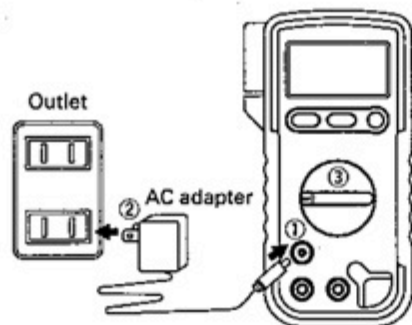
4-3 Use of the AC adapter

⚠ WARNING

1. Maximum input voltage in the event that is connect with AC adapter is DC · AC100V. (AC voltage is regulated by rms value of sinusoidal wave. Peak max. 141V)
2. Do not use the AC adapter other than designated devices.
3. Do not use the AC adapter other than AC100V for the home.

<Connection of the AC adapter>

- ① The plug of the AC adapter into the terminal of the multimeter.
- ② The AC adapter into the outlet for the home.
- ③ Turning the function switch of the multimeter and turn on the power supply.



(Fig 4)

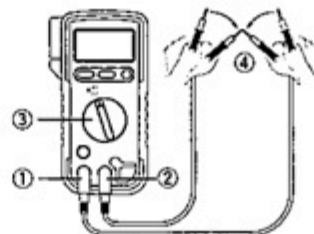
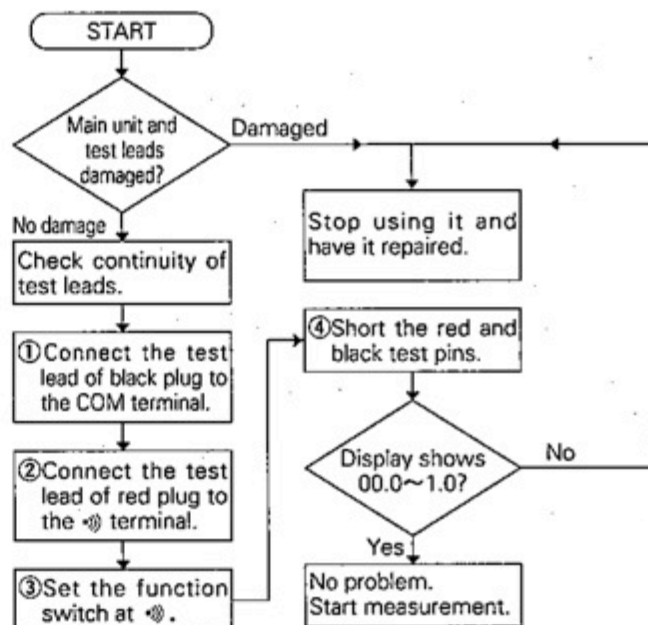
The function of auto power off acts with at the time of AC adapter use. When using the AC adapter long time (30 minutes more than long), Auto power off function can be canceled. See P.32 [4] Auto power off.

[5] MEASUREMENT PROCEDURE

5-1 Start-up Inspection

⚠ WARNING

1. Never use meter if the meter or test leads are damaged or broken.
2. Make sure that the test leads are not cut or otherwise damaged.



5-2 Voltage measurement Maximum rating input value 1000VDC or 750VAC

⚠ WARNING

1. Never apply an input signals exceeding the maximum rating input value.
2. Be sure to disconnect the test pins from the circuit when changing the function.
3. Always keep your fingers behind the finger guards on the probe when making measurements.

1) Applications

DCV : Measures batteries and DC circuits.

ACV : Measures sine-wave AC voltage as lighting voltages.

2) Measuring ranges

DCV : 400mV ~ 1000V (5 ranges)

ACV : 400mV ~ 750V (5 ranges)

3) Measurement procedure (See Fig 6 or 7, page 10)

- ① Connect the test lead of the black plug to the COM input terminal and the red plug to the "V" input terminal.
 - ② Set the function switch at "DCV" or "ACV" function.
 - ③ Apply the black test pin to the negative potential side of the circuit to measure and the red test pin to the positive potential side.
 - ④ Read the value on the display.
 - ⑤ After measurement, remove the red and black test pins from the circuit measured.
- Since this instrument employs the means value system for its AC voltage measurement circuit, AC waveform other than sine wave may cause error.

5-3 Resistance Measurement (Ω)

⚠ WARNING

Never apply voltage to the input terminals.

1) Application

Resistance of resistors and circuits are measured.

2) Measuring ranges

400 Ω ~ 40M Ω (6 range)

3) Measurement procedure (See Fig 8, page 11)

- ① Connect the test lead of the black plug to the COM input terminal and the red plug to the " Ω " input terminal.
 - ② Set the function switch at " Ω " function.
 - ③ Apply the black and red test pin to measured circuit.
 - ④ Read the value on the display.
 - ⑤ After measurement, remove the red and black test pins from the circuit measured.
- If measurement is likely to be influenced by noise, shield the object to measure with negative potential (test lead black).
 - If a test pin is touched by a finger during measurement, measurement will be influenced by the resistance in the human body to result in measurement error.
 - The input terminals release voltage is about 0.4V.

5-4 Checking Continuity ($\bullet \rightarrow \rightarrow \rightarrow$)

⚠ WARNING

Never apply voltage to the input terminals.

1) Application

Checking the continuity of wiring and selecting wires.

2) Measurement procedure (See Fig 9, page 12)

- ① Connect the test lead of the black plug to the COM input terminal and the red plug to the " $\bullet \rightarrow \rightarrow \rightarrow$ " input terminal.
- ② Set the function switch at " $\bullet \rightarrow \rightarrow \rightarrow$ " function.
- ③ Apply the red and black test pins to a circuit or conductor to measure.

- ④The continuity can be judged by whether the buzzer sounds or not.
- ⑤After measurement, release the red and black test pins from the object measured.
- The buzzer sounds when the resistance in a circuit to measure is less than about 40Ω .
- The input terminals release voltage is about 0.4V.

5-5 Testing Diode (→)

⚠ WARNING

Never apply voltage to the input terminals.

1) Application

The quality of diodes is tested.

2) Measurement procedure (See Fig 10, page 13)

- ①Connect the test lead of the black plug to the COM input terminal and the red plug to the "→" input terminal.
- ②Set the function switch at "→" function and push the shift switch.
- ③Apply the black test pin to the cathode of the diode and the red test pin to the anode.
- ④Make sure that the display shows a diode forward voltage drop.
- ⑤Replace the red and black test pins, make sure that the display is the same as that when the test leads are released.
- ⑥After measurement, release the red and black test pins from the object measured.

Judgement

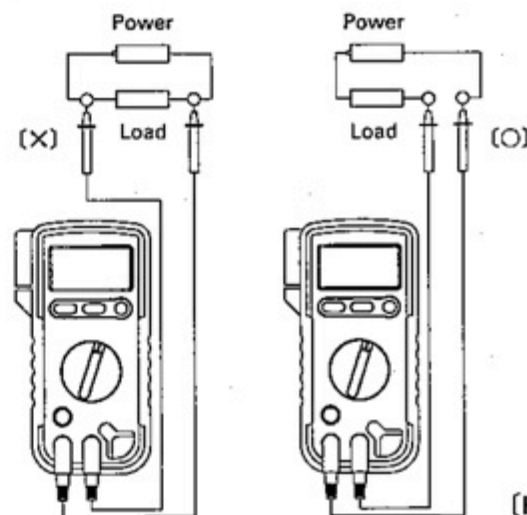
When the items ④ and ⑤ are normal, the diode is good.

- The input terminals release voltage is about 2.2~3.3V.

5-6 Current Measurement

⚠ WARNING

1. Never apply voltage to the input terminals.
2. Be sure to make a series connection via load.
(please see to above drawing)
3. Do not apply an input exceeding the maximum rated current to the input terminals.



[Fig 11]

5-6-1 Current Measurement (mA) Maximum rating input value DC/AC 400mA

1) Applications

Current in DC and AC circuit is measured.

2) Measuring ranges

400mA (1 range)

3) Measurement procedure (See Fig 12, page 15)

- ①Connect the test lead of the black plug to the COM input terminal and the red plug to the "mA" input terminal.
- ②Set the function switch at DC400mA or AC400mA range.

- ③Apply the black test pin to the negative potential side of the circuit to measure and the red test pin to the positive potential side.
- ④Read the value on the display.
- ⑤After measurement, remove the red and black test pins from the circuit measured.
- If the display will not change when an input signal is applied (measurement is not possible), a probable cause is a blown fuse.
- Since this instrument employs the means value system for its AC voltage measurement circuit, AC waveform other than sine wave may cause error.

5-6-2 Current Measurement (A) Maximum rating input value DC/AC 12A

⚠ WARNING

1. Never apply voltage to the input terminals.
2. Finish measurement within 30 seconds to prevent heat generation.
3. Provide intervals 3 minutes or longer between measurements to prevent heat generation.
4. Perform measurement with the leads kept straight to prevent overheat.

- 1) Applications
Current in DC and AC circuit is measured.
- 2) Measuring ranges
12A (1 range)
- 3) Measurement procedure (See Fig 13, page 16)
 - ①Connect the test lead of the black plug to the COM input terminal and the red plug to the "12A" input terminal.
 - ②Set the function switch at "DC12A" or "AC12A" range.
 - ③Apply the black test pin to the negative potential side of the circuit to measure and the red test pin to the positive potential side.
 - ④Read the value on the display.
 - ⑤After measurement, remove the red and black test pins from the circuit measured.

- If the display will not change when an input signal is applied (measurement is not possible), a probable cause is a blown fuse.
- Since this instrument employs the means value system for its AC voltage measurement circuit, AC waveform other than sine wave may cause error.
- 7A continuous:12A for 30 second max. with 3minutes cool down interval.

5-7 How to use optional products

⚠ WARNING

1. Never apply an input signals exceeding the maximum rating input value of optional products.
2. Be sure to disconnect the test pin from the circuit when changing the function.

5-7-1 AC Clamp Probe (CL-20D) Maximum measurement value AC200A <Measurement procedure> (See Fig 14, page 17)

- ①Set the function at ACV and set the 4V range with the range hold switch.
- ②Connect the current probe of the black plug to the COM terminal and the red plug to the V terminal.
- ③Select either 20A or 200A with selector knob of clamp probe.
- ④Open the clamp part, have electric line (one line) clamped.
- ⑤Read the value on the display in A unit and when current probe of the 20A range after multiplying indicated value by 10, and the 200A range after multiplying indicated value by 100.
- ⑥After measurement, open the clamp part and release clamp probe from the electric wire.

5-7-2 DC·AC Clamp Probe (CL-22AD) Maximum measurement value DC/AC200A <Measurement procedure> (See Fig 15, page 18)

- ①Set the function at DCV or ACV. Set the range is 400mV with range hold switch at DC measurement. Set the range is 400mV with range hold switch at AC measurement.
- ②Connect the current probe of the black plug to the COM terminal and the red plug to the V terminal.

- ③ Select either 20A or 200A with selector knob of clamp probe
- ④ Open the clamp part, have electric wire (one line) clamped.
- ⑤ Read the value on the display as follows.
 DC20A multiplying by 0.1 AC20A multiplying by 0.1
 DC200A multiplying by 1 AC200A multiplying by 1
- ⑥ After measurement, open the clamp part and release clamp probe from the electric wire.

5-7-3 DC Clamp Probe (CL33DC) Maximum measurement value DC300A <Measurement procedure> (See Fig 16, page 19)

- ① Set the function at DCV and set the 400mV range with the range hold switch.
- ② Connect the current probe of the black plug to the COM terminal and the red plug to the V terminal.
- ③ Select either 30A or 300A with selector knob of clamp probe.
- ④ Open the clamp part, have electric line (one line) clamped.
- ⑤ Read the value on the display in A unit and when current probe of the 30A range after multiplying indicated value by 0.1, and the 300A range after multiplying indicated value by 1.
- ⑥ After measurement, open the clamp part and release clamp probe from the electric wire.

5-7-4 Temperature probe (T-300PC) Measurement range 300°C from -50°C <Measurement procedure> (See Fig 17, page 20)

- ① Connect the black plug to COM measuring terminal and the red plug to V measuring terminal
- ② Set the function Ω .
- ③ Press the range hold switch to hold the 4k Ω range.
- ④ Apply the sensor to an object to measure.
- ⑤ Read the value on the display. *1
- ⑥ After measurement, release the sensor from the object measured.

*1 When measuring temperature, please neglect the value of k ohm indicated on LCD of multimeter. The exact value of measured temperature is shown only on the window of PCLink.

[6] MAINTENANCE

WARNING

1. This section is very important for safety. Read and understand the following instruction fully and maintain your instrument properly.
2. The instrument must be calibrated and inspected at least once a year to maintain the safety and accuracy.

6-1 Maintenance and inspection

1. Appearance
 - Is the appearance not damaged by falling?
2. Test leads
 - Is the cord of the test leads not damaged?
 - Is the core wire not exposed at any place of the test leads?

If your instrument falls in any of the above items, do not use it and have it repaired or replace it with a new one.

 - Make sure that the test leads are not cut, referring to the section.

6-2 Calibration

The calibration and inspection may be conducted by the dealer.
 For more information, please contact the dealer.

6-3 How to Replace Battery and Fuse (See Fig 18, page 22)

WARNING

1. If the rear case is removed with input applied to the input terminals, you may get electrical shock. Before starting the work, always make sure that no inputs is applied.
2. Be sure to use the fuse is same rating so as to ensure safety and performance of tester.
3. When operator remove the rear case, do not touch the internal parts or wire with hand.

<How to replace the battery>

- ① Remove the rear case screw with a screwdriver.
- ② Remove the rear case.

③Take out the battery and replace it with a new one.

④Attach the rear case and fix it with the the screw.

<How to replace the fuse>

Fuse of the Specified Rating and Type

0.5A/250V ϕ 5.2×20mm Blowout capacity:300A

12A/250V ϕ 6.3×30mm Blowout capacity:500A

①Remove the rear case screw with a screwdriver.

②Remove the rear case.

③Pull out the fuse out of holder on the circuit board and replace it.

④Put back rear case where it was and tighten the screw.

⑤Check and see whether or not indications of respective ranges are normal.

6-4 Storage

⚠ CAUTION

1. The panel and the case are not resistant to volatile solvent and must not be cleaned with thinner or alcohol.
For cleaning, use dry, soft cloth and wipe it lightly.
2. The panel and the case are not resistant to heat. Do not place the instrument near heat-generating devices (such as a soldering iron).
3. Do not store the instrument in a place where it may be subjected to vibration or from where it may fall.
4. For storing the instrument, avoid hot, cold or humid places or places under direct sunlight or where condensation is anticipated.

Following the above instructions, store the instrument in good environment.

[7] AFTER-SALE SERVICE

7-1 Repair

If the multimeter fails during use, check the following items before sending it for repair.

- Is the battery not exhausted?
- Are the test leads not disconnected?
- Is the fuse not blown?

We repair defective product at cost. When mailing it to us for repair, do not use the same cardboard box in which it was delivered to you because it may receive damage in transit.

Please send it in a box at least five times as large as the original box with enough cushioning material stuffed around it.

7-2 For Information or Enquiries

If you need information regarding purchase of repair parts or if you have any other sales related questions, please contact the dealer, selling agent, or maker.

[8] SPECIFICATIONS

8-1 General Specifications

Measuring Method	: Dual integration
Display	: Counter : Approx. 4000 counts Bar graph : 40 segment max.
Range selection	: Auto and manual ranges
Over display	: Flickering of the highest digit (except 12A).
Polarity	: Automatic selection (only "-" is displayed)
Battery discharge display	: If the internal battery has been consumed and the voltage drops, the display shows.
Sampling rate	: Approx. 2 times/sec. (numeral display) Approx. 20 times/sec. (bar graph)
Accuracy assurance temperature /humidity range	: $23 \pm 5^{\circ}\text{C}$ 80%RH max. No condensation.
Operating temperature /humidity range	: $0 \sim 40^{\circ}\text{C}$ 80%RH max. No condensation.
Storage temperature /humidity range	: $-10 \sim 50^{\circ}\text{C}$ 70%RH max. No condensation.
Environmental condition	: Operating altitude <2000m, pollution degree II
Power supply	: R06 (IEC) dry battery, 2 pieces
Power consumption	: Approx. 5mW TPY. (at DCV)
Battery life	: Approx. 200 hours at DCV
Fuse protection	: 0.5A/250V fuse Blowout capacity, 300A $\phi 5.2 \times 20\text{mm}$ 12A/250V fuse Blowout capacity, 500A $\phi 6.4 \times 30\text{mm}$
Dimension and weight	: 165.5(H) \times 78(W) \times 41.5(D)mm Approx. 325g (holster attached.)
Safety	: IEC 1010-1 (EN61010-1) $\leq \text{DC} \cdot \text{AC } 600\text{V}$: Designed to protection Class III requirement of IEC 1010-1, Pollution degree II. $\leq \text{DC}100\text{V} \cdot \text{AC } 750\text{V}$: Designed to protection Class II requirement of IEC 1010-1, Pollution degree II.

When AC adapter use : $\leq \text{DC} \cdot \text{AC } 100\text{V}$: Designed to protection Class III
requirement of IEC 1010-1, Pollution degree II.

EMC : EN50081-1(EN55022)
EN50082-1(EN61000-4-2)
EN50082-1(EN61000-4-3)
EN50082-1(EVN50204)

Installation Category (Overvoltage Category) II

: Local Level
Appliances
Portable Equipment

Installation Category (Overvoltage Category) III

: Distribution Level
Fixed Installation

Accessories : Instruction manual, Test leads (TL-21),
Holster (H-70)

8-2 Optional accessories

- Current probe : CL-22AD, CL-20D, CL33DC
- Temperature probe : T-300PC
- Soft case : C-C7
- Carrying case : C-PC10/S
- AC Adaptor : AD-10
- RS232C interface cable : KB-RS1
- PC link

8-3 Measurement Range and Accuracy

Accuracy assurance range : 23±5°C 80%RH MAX. No condensaiton.

Function	Range	Accuracy	Input Resistance	Remark
DCV	400.0mV	$\pm (0.5\%rdg+2dgt)$	$\geq 100M\Omega$	
	4.000V	$\pm (0.9\%rdg+2dgt)$	Approx. 11M Ω	
	40.00V		Approx. 10M Ω	
	400.0V			
	1000V			
ACV	400.0mV	$* \pm (1.2\%rdg+5dgt)$	$\geq 100M\Omega$	• Accuracy in the Case of sine wave. 400mV : 45~100Hz 4Vup : 40~500Hz
	4.000V		Approx. 11M Ω	
	40.00V		Approx. 10M Ω	
	400.0V			
	750.0V	$\pm (5\%rdg+5dgt)$		
Ω	400.0 Ω	$\pm (0.8\%rdg+2dgt)$	● Open voltage : Approx. 0.4V ● The measuring current changes according to the resistance measure. ● For 400 Ω , accuracy was measured after canceling resistance such as test leads by REL function.	
	4.000k Ω			
	40.00k Ω			
	400.0k Ω			
	4000k Ω	$\pm (2.0\%rdg+2dgt)$		
	40.00M Ω	$\pm (5.0\%rdg+2dgt)$		
DCA	400.mA	$\pm (1.4\%rdg+2dgt)$	Approx. 1 Ω	
	12.00A	$\pm (2.0\%rdg+2dgt)$	Approx. 0.01 Ω	
ACA	400.0mA	$* \pm (1.8\%rdg+5dgt)$	Approx. 1 Ω	• Accuracy in the Case of sine wave. AC : 40~500Hz
	12.00A	$* \pm (2.5\%rdg+5dgt)$	Approx. 0.01 Ω	
•	• Buzzer sounds at approx. 40 Ω max. • Open voltage : Approx. 0.4V			
→	• Open voltage : Approx. 2.2~3.3V			
°C	$\pm (1\%rdg+4.8^{\circ}C)$		Optional Temperature probe (T-300PC)	

rdg : reading dgt : digits

* Accuracy in the case of sine wave AC.

Specifications and external appearance of the product described above may be revised for modification without prior notice.

sanwa

保証書

ご氏名

様

型名

PC10

製造No.

ご住所

□□□-□□□□

この製品は厳密なる品質管理を経てお届けするものです。
本保証書は所定項目をご記入の上保管していただき、アフターサービスの際ご提出ください。
※本保証書は再発行はいたしませんので大切に保管してください。

TEL

保証期間

三和電気計器株式会社

ご購入日

年 月より3年間

本社=東京都千代田区外神田2-4-4・電波ビル
郵便番号=101-0021・電話=東京(03)3253-4871(内)

保証規定

保証期間中に正常な使用状態のもとで、万一故障が発生した場合には無償で修理いたします。ただし下記事項に該当する場合は無償修理の対象から除外いたします。

記

- 取扱説明書と異なる不適当な取扱いまたは使用による故障
- 当社サービスマン以外による不当な修理や改造に起因する故障
- 火災水害などの天災を始め故障の原因が本計器以外の事由による故障
- 電池の消耗による不動作
- お買上げ後の輸送、移動、落下などによる故障および損傷
- 本保証書は日本国において有効です。

This warranty is valid only within Japan.

年 月 日	修理内容をご記入ください。

※無償の認定は当社において行わせていただきます。