

POCKET TYPE DIGITAL MULTIMETER

New Model MCD-107



FEATURES

- ★ Ultra compact size and weight
- ★ Easy operation with rotary switch
- ★ 4000count full scale with autoranging
- ★ Auto Power Off Function

GENERAL SPECIFICATIONS

| | |
|------------------------|--|
| Display | : LCD, max. reading of 4000 |
| Polarity | : Automatic (-)negative indication |
| Over range indication | : "OL" mark on LCD readout |
| Low battery indication | : "B" mark is displayed when the battery voltage drops below operating voltage |
| Sampling | : 3 times/sec. |
| Operating temperature | : 0~40°C, <80%RH (non-condensing) |
| Storage temperature | : -10~50°C, <70%RH (non-condensing) |
| Power Supply | : Lithium battery CR2032(3V)×1 |
| Power consumption | : Approx.6.0mW(typical at DVC) |
| Size & Weight | : 98(H)×59(W)×9.5(D)mm |
| Accessories | : Book type Cover case1 Instruction Manual.....1 Battery1 |

MEASURING RANGES & ACCURACY

(23±5±, °C 80%RH no-condensing)

| Function | Range | Accuracy | Input Resistance | Remark | |
|------------------|----------|---|---|--------|-----------------|
| DC Voltage | 400.0mV | ±(0.7%rdg+3dgt) | more than 100MΩ | | |
| | 4.000V | | approx.11MΩ | | |
| | 40.00V | | Approx.10MΩ | | |
| | 400.0V | | | | |
| | 500V | | | | |
| AC Voltage | 4.000V | ±(2.3%rdg+10dgt) | approx.11MΩ | | |
| | 40.00V | | approx.10MΩ | | |
| | 400.0V | | | | |
| | 500V | | | | |
| | 500V | | | | ±(2.3%rdg+5dgt) |
| Resistance | 400.0Ω | ±(2.0%rdg+5dgt) | Opening Voltage : Approx.0.4V Current Voltage is changing up to resistance value to be measured | | |
| | 4.000KΩ | | | | |
| | 40.00KΩ | | | | |
| | 400.0KΩ | | | | |
| | 4.000MΩ | | | | ±(5.0%rdg+5dgt) |
| Capacitance | 40.00nF | ±(5.0%rdg+10dgt) | Accuracy : after cancelled the display value by relative function | | |
| | 400.0μF | | | | |
| | 40.00μF | | | | ±(10%rdg+15dgt) |
| | 100.0μF | | | | |
| | 9.999Hz | | | | |
| Frequency | 99.99Hz | ±(0.7%rdg+5dgt) | ★ at AC sine wave Sensitivity of input voltage 9.999Hz~9.999MHz : more than 10Vrms 99.99KHz : more than 40Vrms | | |
| | 999.9Hz | | | | |
| | 9.999Hz | | | | |
| | 99.99KHz | | | | |
| | 99.99KHz | | | | |
| Duty | 0.1~99% | | Input Sensitivity & Frequency Characteristic (Rectangular Wave Input Duty 50%) 2.5V 0 to peak input ≥ 1KHz 6V 0 to peak input ≥ 10KHz 40V 0 to peak input ≥ 70KHz | | |
| Continuity Check | | Beeping 10~60Ω · Opening Voltage : approx. 0.4V | | | |
| Diode Test | | Opening Voltage : approx.1.5V | | | |

POCKET TYPE DIGITAL MULTIMETER

Model MCD-006

meets safety standard CAT.II 500V



FEATURES

- Ultra compact size and light weight.
- Easy operation with rotary switch.
- AC/DC voltage, resistance, continuity check and diode test with full autoranging operation.

SPECIFICATIONS

| | |
|------------------------|--|
| Display | : 3 1/2 digit LCD, max. reading of 3200 |
| Polarity | : Automatic, (-)negative polarity indication. |
| Over range indication | : "OL" mark on LCD readout |
| Low battery indication | : "B" mark is displayed when the battery voltage drops below operating voltage |
| Sampling | : 2 times/sec. |
| Auto power off | : The meter is set to power off mode approx. 10 minutes after the power switch on. |
| Operating temperature | : 0°C to 40°C, <70% RH(Non-condensing) |
| Measuring ranges | (23°C±5°C, > 80% RH or less) |

DC Voltage

| Range | Resolution | Accuracy | Input resistance | Max. input |
|-------|------------|------------------|------------------|-------------------|
| 320mV | 100μV | ±1.3% rdg ±3 dgt | >1000MΩ | 500V DC or AC rms |
| 3.2V | 1mV | ±0.7% rdg ±3 dgt | Approx. 11MΩ | |
| 32V | 10mV | ±1.3% rdg ±3 dgt | Approx. 10MΩ | |
| 320V | 100mV | | | |
| 500V | 1V | | | |

AC Voltage (50/60Hz)

| Range | Resolution | Accuracy | Input impedance | Max. input |
|-------|------------|------------------|-----------------|-------------------|
| 3.2V | 1mV | ±2.3% rdg ±6 dgt | Approx. 11MΩ | 500V DC or AC rms |
| 32V | 10mV | | Approx. 10MΩ | |
| 320V | 100mV | | | |
| 500V | 1V | | | |

Resistance

| Range | Resolution | Accuracy | Test current | Input protection |
|-------|------------|------------------|--------------|-------------------|
| 320Ω | 100mΩ | ±2.0% rdg ±5 dgt | < 0.7mA | 500V DC or AC rms |
| 3.2KΩ | 1Ω | ±2.0% rdg ±3 dgt | < 0.13mA | |
| 32KΩ | 10Ω | | < 13μA | |
| 320KΩ | 100Ω | | < 1.3μA | |
| 3.2MΩ | 1KΩ | ±6.0% rdg ±4 dgt | < 0.13μA | |
| 32MΩ | 10KΩ | ±10% rdg ±10 dgt | | |

Diode Test

| Range | Resolution | Accuracy | Test current | Input protection |
|-------|------------|-----------------|-------------------------|-------------------|
| 3.2V | 1mV | ±10% rdg ±3 dgt | Approx. 0.7mA (Vf=0.6V) | 500V DC or AC rms |

Continuity Check

| Range | Resolution | Continuity Beeper | Test current | Input protection |
|-------|------------|-------------------|--------------|-------------------|
| 320Ω | 100mΩ | < Approx.20Ω | < 0.7mA | 500V DC or AC rms |

Model MCD-007



- 3200 count full scale with bargraph display.
- Low power consumption with auto power off function.

| | |
|---------------------|--|
| Storage temperature | : 20°C to 60°C, <80%RH(Non-condensing) |
| Power supply | : LR-44 (1.55V)×2 |
| Power consumption | : 5.0mW |
| Size | : MCD-007 110(H)×60(W)×9.5(D)mm MCD-006 120(H)×80(W)×10.5(D)mm |
| Weight | : Approx. 86g(MCD-007) Approx. 93g(MCD-006) (Including batteries and case) |
| Accessories | : Hard cover case.....1 Instruction manual.....1 Batteries.....2 |