

## Standard type



CE

## CD731a

New

## New Standard

- 3-3/4 digits 4000 count
- Easy to read large LCD
- Safety cap on current terminal
- Data hold, Range hold
- Continuity check, Diode test
- Auto power off function (30min.) (cancelable)

**Display** : numeral display 4000  
**Sampling rate** : 3 times / sec.  
**AC frequency bandwidth** : 40~500Hz (sine wave)  
**Safety** : IEC61010-1 (EN61010-1) 2001-02 CAT.Ⅱ 600V Max. / CAT.Ⅲ 1000V

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/1000V	± (0.5%+2)	0.1mV	DCV: 10M~
ACV	4/40/400/750V	± (1.2%+5)	1mV	10M~
DCA	400μ/4000μ/40m/400mA/4A/20A	± (1.5%+2)	0.1μ	100MΩ
ACA	400μ/4000μ/40m/400mA/4A/20A	± (1.8%+5)	0.1μ	ACV: 10M~
Resistance	400/4k/40k/400k/4M/40MΩ	± (1.2%+4)	0.1Ω	11MΩ
Capacitance	50n/500n/5μ/50μ/100μF	± (5%+6)	0.01nF	
Continuity	Open voltage: approx. 0.4V		Buzzer sounds at approx 10~120Ω max.	
Diode test	Open voltage: approx. 1.5V			
Bandwidth	40~500Hz (sine wave)			
Fuse / Battery	0.5A/250V 1.5kA Φ5X20mm 20A/250V 200kA Φ6.3X32mm	R6X2		
Size / Weight	H167XW90XD48mm/315g (including holster)			
Standard accessories included	Test lead (TL-21), Holster (H-70) Instruction manual			

## Optional accessories

Clamp probe : CL-20D, CL-22AD, CL33DC  
 Carrying case : C-SP Clip adapter : CL-11, CL-15, TL-8IC, HV probe:HV-60

## Slim compact



## DA-50C

## Easy to use slim body

- 3-3 / 4 digits 4000 count
- 0.6% best accuracy
- Fast speed bar graph
- Frequency measurement (AC sine wave only)
- Low power ohm (input voltage 0.4V) at continuity range
- Max / Min recording measurement
- Data hold / Range hold
- Relative value
- Auto power off (30min.) (cancelable)

**Display** : numeral display 3999, bar graph 40 segments  
**Sampling rate** : 2 times / sec., 20 times / sec. for bar graph  
**AC frequency bandwidth** : 45~100Hz (400mV), 45~500Hz (4V and above)

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/600V	± (0.6%+2)	0.1mV	DCV: 10M~
ACV	4/40/400/600V	± (1.4%+5)	0.1mV	10M~
DCA	40m/10A	± (1.4%+2)	0.01mA	100MΩ
ACA	40m/10A	± (1.8%+5)	0.01mA	ACV: 10M~
Resistance	400/4k/40k/400k/400k/40MΩ	± (0.8%+2)	0.1Ω	100MΩ
Frequency	99.99/999.9/9.99k/99.99k/999.9kHz	± (0.3%+3)	0.01Hz	
Continuity	Buzzer sounds at less than 40Ω. Open voltage : approx. 0.4V			
Diode test	Open voltage : approx. 2.2~3.3V			
Bandwidth	45~100Hz (400mV) 45~500Hz (higher than 4V)			
Fuse / Battery	0.5A/250V Φ5.2X20mm 10A/250V Φ5.2X20mm	R03X2		
Size / Weight	H145XW82XD30mm/approx. 200g			
Standard accessories included	Test Lead (TL-61), Instruction manual			

## Optional accessories

Clamp probe : CL-20D, CL-22AD, CL33DC Carrying case : C-DA Clip adapter : CL-11, TL-8IC

## Safety Multimeter



CE

## CD750P

## Full-range 750V overload protection circuit

- 3-3 / 4 digits 4000 count
- Giving priority to the safety
- 750V high overload protection circuit is equipped.
- 1000V withstand fuse is installed.
- 3 terminals with cover design to ensure safety.
- With carrying case to store test leads

**Display** : numeral display 4000  
**Sampling rate** : 2 times / sec.  
**AC frequency bandwidth** : 40~500Hz  
**Safety** : IEC61010-1 CAT.Ⅲ 600V Max. / CAT.Ⅱ DC1000V, AC750V Max.

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/1000V	± (0.7%rdg-5dgt)	0.1mV	DCV: 10M~
ACV	4/40/400/750V	± (1.6%rdg-9dgt)	0.001V	100MΩ
Resistance	400/4k/40k/4M/40MΩ	± (1.5%rdg-10dgt)	0.1Ω	ACV: 10M~
Continuity	Buzzer sounds at less than 10~200Ω. Open voltage : approx. 0.4V			11MΩ
Diode Test	Open voltage : approx. 1.5V			
Bandwidth	40~500Hz			
Fuse / Battery	0.44A / 1000V IR10kA Φ10X35mm (DMM-B44 / 100 Bussmann, Inc.)	R03X2		
Size / Weight	H157.5 X W70 X D38.5mm / 220g			
Standard accessories included	Test lead (TL-122), Carrying case (C-NH7), Instruction manual			

## Optional accessories

Clamp probe : CL-20D, CL-22AD, CL33DC High voltage probe : HV-60

## Pocket type



## PM11

New

## Tough but compact DMM

- 3-3 / 4 digits 4000 count
- 0.8% best accuracy
- Analog bar graph
- Compact storage of test leads
- Test lead can be snapped into a fixed position atop the case.

**Display** : numeral display 4000, bar graph 40 segments  
**Sampling rate** : 1.3 times / sec., 13 times / sec. for bar graph  
**AC frequency bandwidth** : 45~1KHz  
**Safety** : IEC61010-1 CAT.Ⅲ 300V Max. / CAT.Ⅱ 500V Max.

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/500V	± (0.8%+4)	0.1mV	DCV: 10M~
ACV	4/40/400/500V	± (2.3%+8)	0.001V	100MΩ
Resistance	400/4k/40k/400k/4M/40MΩ	± (2.0%+4)	0.1Ω	ACV: 10M~
Continuity	Buzzer sounds at less than 35Ω. Open voltage : approx. 1.2V			10M~
Diode test	Open voltage : approx. 3V			11MΩ
Bandwidth	45~1kHz			
Battery	Button battery LR-44X2			
Size / Weight	H117XW76XD18mm/approx. 117g			
Standard accessories included	Instruction manual			

## Optional accessories

Clip adapter : CL-13

## PM3

## 8.5mm thick body with multi-function

- 3-3 / 4 digits 4000 count
- 0.7% best accuracy
- Capacitance measurement  
\*Not suitable for measurement of condensers with large leak current.
- Frequency measurement (AC sine wave only)
- Duty cycle
- Data hold
- Relative value
- Auto power off (15min.) (cancelable)

**Display** : numeral display 4000  
**Sampling rate** : 3 times / sec.  
**AC frequency bandwidth** : 40~400Hz  
**Safety** : IEC61010-1 CAT.Ⅲ DC AC500V Max.

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/500V	± (0.7%+3)	0.1mV	DCV: 10M~
ACV	4/40/400/500V	± (2.3%+10)	0.001V	100MΩ
Resistance	400/4k/40k/400k/4M/40MΩ	± (2.0%+5)	0.1Ω	ACV: 10M~
Capacitance	5n/50n/500n/5μ/50μ/200μF	± (5.0%+10)	0.001nF	ACV: 10M~
Frequency	9.999/99.999/999.9/9.99k/60.00kHz	± (0.7%+5)	0.001Hz	11MΩ
Duty Cycle	0.1~99%			
Continuity	Buzzer sounds at less than 10~120Ω. Open voltage : approx. 0.4V			
Diode Test	Open voltage : approx. 1.5V			
Bandwidth	40~400Hz			
Battery	Coin type lithium battery CR2032 (3V)X1			
Size / Weight	H108XW56XD11.5mm/approx. 85g			
Standard accessories included	Case holder (C-PM3), Instruction manual			

## Optional accessories

Clip adapter : CL-13

## PM7a

## Updated longtime seller

- 3-3 / 4 digits 4000 count
- 0.7% best accuracy
- Range hold
- Auto power off (15min.)
- Low power ohm (input voltage 0.4V) at continuity range
- Power saving design

**Display** : numeral display 4000  
**Sampling rate** : 3 times / sec.  
**AC frequency bandwidth** : 40~400Hz

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/500V	± (0.7%+3)	0.1mV	DCV: 10M~
ACV	4/40/400/500V	± (2.3%+10)	0.001V	100MΩ
Resistance	400/4k/40k/400k/4M/40MΩ	± (2.0%+5)	0.1Ω	ACV: 10M~
Continuity	Buzzer sounds at less than 10~120Ω. Open voltage : 0.4V			10M~
Diode test	Open voltage : approx. 1.5V			11MΩ
Bandwidth	40~400Hz			
Battery	Button battery LR-44X2			
Size / Weight	H115XW57XD18mm/approx. 85g			
Standard accessories included	Instruction manual			

## Optional accessories

Clip adapter : CL-11, TL-8IC

## PS8a

## Solar charge battery DMM

- 3-3 / 4 digits 4000 count
- 0.7% best accuracy
- Range hold
- Auto power off (15min.)
- Low power ohm (input voltage 0.4V) at continuity range
- Power saving design

**Display** : numeral display 4000  
**Sampling rate** : 3 times / sec.  
**AC frequency bandwidth** : 40~400Hz

Function	Measuring range	Best accuracy	Resolution	Input impedance
DCV	400m/4/40/400/500V	± (0.7%+3)	0.1mV	DCV: 10M~
ACV	4/40/400/500V	± (2.3%+5)	0.001V	100MΩ
Resistance	400/4k/40k/400k/4M/40MΩ	± (2.0%+5)	0.1Ω	ACV: 10M~
Continuity	Buzzer sounds at less than 10~120Ω. Open voltage : 0.4V			10M~
Diode test	Open voltage : approx. 1.5V			11MΩ
Bandwidth	40~400Hz			
Battery	Amorphous solar battery + manganese dioxide lithium secondary battery			
Size / Weight	H115XW57XD18mm/approx. 85g			
Standard accessories included	Instruction manual			

## Optional accessories

Clip adapter : CL-11, TL-8IC