

sanwa®

TOKYO JAPAN

DIGITAL MULTIMETER

CD800a2

CD800a3

APPLICATIONS AND FEATURES

CAT. IV 600V, Tough body cover

- 6000 count
- True RMS
- 0.7 best accuracy (DCmV)
- Max/Min value hold
- Data hold, Range hold, Relative function
- EF (Electric Field) sensing *CD800a3 only
- Auto power off (30min.) (cancelable)
- Body cover for protection and as a tilt stand
- Back light *CD800a3 only
- Chip holder behind the body cover

SPECIFICATIONS

	Measuring range	Best accuracy	Resolution	Input impedance
DCV	600m/6/60/600V	$\pm(0.7\%+3)$	0.1mV	10M Ω
ACV	6/60/600V	$\pm(1.6\%+5)$	0.001V	
DCA	60m/600mA	$\pm(2.2\%+5)$	0.01mA	
ACA	60m/600mA	$\pm(2.8\%+5)$	0.01mA	
Resistance	600/6k/60k/600k/6M/60M Ω	$\pm(1.2\%+5)$	0.1 Ω	
Capacitance	60n/600n/6 μ /60 μ /600 μ /6mF	$\pm(5\%+10)$	0.01nF	
Frequency	9.999/99.99/999.9/9.999k/99.99kHz	$\pm(0.5\%+3)$	0.001Hz	
Duty Cycle	20%~80%	$\pm(0.5\%+5)$	0.1%	
Continuity	Buzzer sounds at 39~60 Ω or less. Open voltage: approx. 0.4V			
Diode test	Open voltage: approx. 3V			
EF sensing	AC90V or more, 50/60Hz *CD800a3 only			

Measuring method	$\Delta\Sigma$ method
Display	6000 counts (Hz: 9999 counts)
Sampling rate	Approx. 3 times/sec
Range selection	Auto and Manual ranges (Manual range or Auto range only)
Over ranging indication	"OL" mark indication
Polarity indication	Automatic selection ("—" is indicated when negative voltage is applied.)
Low battery indication	Below approx. 2.4 V $\left(\frac{4}{5}\right)$ mark indication
Environmental condition	Operating altitude <2000 m / Pollution degree II
Operating temperature	5 °C~40 °C Humidity range: Maximum 80 % RH for temperatures up to 31 °C decreasing linearly to 50 % RH at 40 °C
Storage temperature / humidity range	-10 °C~50 °C 70 % R.H. max. No condensation. (Excluding batteries)
AC detection method	TrueRMS
Auto power off	30 min. (Approx. 10 μ A)
Power consumption	3.9 mW TYP (DCV measurement, approx. 1.3 mA with backlight off)
Battery life	Approx. 650 hours at DCV
Safety	IEC61010 CAT. IV 600V
Fuse/Battery	0.6A/600V 10kA ϕ 6.3X32mm / R6 (1.5V) x2
Size / Mass	L 176 mm x W 104 mm x H 48 mm / approx. 360g
Standard accessories included	Instruction manual, strap
Optional accessories	Adapter : TL-9IC, TL-A4, TL-A7M2



CD800a3



A battery for monitoring has been installed prior to shipment from the factory. It may be discharged before the expiration of the described battery life. This battery is used to check the functions and performance of the product. Specifications and external appearance of the product described above may be revised for modification without prior notice.

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CD800a Series Comparative Chart

Model	CD800a	CD800a2	CD800a3
			
Count	4000	6000 9999 (Hz)	6000 9999 (Hz)
Category	-	CAT IV600V	CAT IV600V
CE	-	•	•
True RMS (AC)	-	•	•
Range	A/M	A/M	A/M
DCV(V)	400m/4/40/400/600	600m/6/60/600	
ACV(V)	4/40/400/600	6/60/600	
DCA(A)	40m/400m	60m/600m	
ACA(A)	40m/400m	60m/600m	
Resistance (Ω)	400/4k/40k/400k/4M/40M	600/6k/60k/600k/6M/60M	
Capacitance (F)	50n/500n/5μ/50μ/100μ	60n/600n/6μ/60μ/600μ/6m	
Frequency (Hz)	5~100k	9.999/99.99/999.9/9.999k/99.99k	
Continuity	Buzzer sounds at less than 10~120Ω	Buzzer sounds at less than 39~60Ω	
Diode test	•	•	•
Duty cycle	•	•	•
EF detection	-	-	•
Auto power off	•	•	•
Data hold	•	•	•
Range hold	•	•	•
Peak hold	-	-	-
Relative value	•	•	•
Max/Min	-	•	•
Backlight	-	-	•
Dimension H (mm)	176	176	176
Dimension W (mm)	104	104	104
Dimension D (mm)	46	48	48
Mass (g)	340	360	360