■General Specification

Average Sensing for RD700, AC True RMS for RD701
4000 counts LCD (Hz: 9999 counts, Hr: 5000 counts)
3 per second nominal (Hz: 2 per second nominal)
Below approx. 2.4V, " ark indication
Auto and Manual ranges (partially Manual range or Auto range only)
Automatic selection ("-" is indicated when negative voltage is inputted.)
"OL" mark indication
0°C~40°C, 0~80% R.H.
Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C
-20°C~60°C, <80% R.H. (With battery removed)
Operating below 2000m
Nominal 0.15 x (specified accuracy)/ °C @ (0°C ~18°C or 28°C~50°C), or otherwise specified
9V battery; NEDA1604A, JIS006P or IEC6F22

	Meets IEC61010-1 (1995), EN61010-1 (1995), to terminals:			
Safety	V / ADP / Ω / •)) /→+/ H-/ TEMP / Hz Category II 600 Volts ac and dc, and Category II 1000 Volts ac and dc			
	A	Category II 500 Volts ac and 300 Volts dc		
	mA/μA	Category II 250 Volts ac and 150 Volts dc		
Transient protection	6.5kV (1.2/50µs surge)			
Pollution degree	2			
E.M.C.	Meets EN61326 (1997, 1998/A1), EN61000-4-2 (1995), and EN61000-4-3 (1996)			
Auto Power Off Timing	Idle for 30 minutes			
Auto Power Off Function Consumption	300μA typical for RD700; 360μA typical for RD701			
Power Consumption	3.2mA Typical			
Dimension	179(L) × 87(W) × 55(H) mm with holster			
Weight	320g / 460g with holster			
Accessories	Test leads: TL-82, K-type thermocouple: K-250PC, Holster: H-50, Battery (installed), Instruction manual: RD700/RD701			

Measurement Range and Accuracy Accuracy assurance range: 23-5°C & Less than 75% R.H.

Function	& Range	Accuracy	Input Impedance	Remarks		
	400.0mV	±(0.3%rdg + 4dgt)	1000ΜΩ			
	4.000V			NMR: >50dB(50/60Hz) CMR:		
DCV	40.00V	\pm (0.5%rdg + 3dgt)	10MΩ, 30pF			
	400.0V		nominal	>120dB (DC, 50/60Hz, Rs=1k0		
	1000V	±(1.0%rdg + 4dgt)		(20,00,001,12,110-1112		
	400.0mV	±(4.0%rdg + 5dgt)	1000ΜΩ			
	4.000V			50∼500Hz		
ACV 1)	40.00V	±(1.5%rdg + 5dgt)	10MΩ, 30pF	CMR: >60dB to		
	400.0V		nominal	DC∼60Hz, Rs=1kΩ		
	1000V	±(4.0%rdg + 5dgt)				
	400.0Ω	±(0.8%rdg + 6dgt)				
	4.000kΩ		Open Circuit Voltage: <0.4VDC typical			
Ω	40.00kΩ	±(0.6%rdg + 4dgt)				
36	400.0kΩ					
	4.000ΜΩ	±(1.0%rdg + 4dgt)				
	40.00ΜΩ	±(3.0%rdg + 4dgt)				
	500.0nF					
	5.000μF	2)	Additional 50.	00nF range accuracy is		
⊣⊦	50.00μF	±(2.5%rdg + 6dgt)	not specified.	,		
	500.0μF		Accuracies wi	th film capacitor or bette		
	3000μF					
	50.00Hz		Operating inn	ut voltage: <20Vrms.		
	500.0Hz	±(0.5%rdg + 4dgt)	Input Signal: S	Sine wave, or Square		
Hz	5.000kHz			y cycle 40%~70% Hz~20kHz: > 0.9Vrms		
	50.00kHz	_(5.575.49490)	20kHz~500kH	Iz: > 2.6Vp or 1.9Vrms		
	500.0kHz		500kHz~1MHz: > 4.2Vp or 3Vrms Update Rate: 2 per second nominal			
	1.000MHz					
TEMP	-20∼300°C	±(2%rdg + 3°C)	Type-K thermocouple range & accura			
LIVII	-4∼572°F	±(2%rdg + 6°F)				

Function & Range		Accuracy	Burden Voltage	Remarks		
	400.0μΑ	±(2.0%rdg + 5dgt)	0.15mV/μA			
	4000μΑ	±(1.2%rdg + 3dgt)	0.15πν/μΑ			
DCA	40.00mA	±(2.0%rdg + 5dgt)	3.3mV/mA	*10A continuous		
DCA	400.0mA	±(1.2%rdg + 3dgt)	3.311V/IIIA	*10A continuous		
	4.000A	±(2.0%rdg + 5dgt)	0.03V/A			
	10.00A *	±(1.2%rdg + 3dgt)	0.03V/A			
	400.0μΑ	±(2.0%rdg + 6dgt)	0.15m)//4			
	4000μΑ	±(1.5%rdg + 4dgt)	0.15mV/μA			
ACA ¹⁾	40.00mA	±(2.0%rdg + 6dgt)	3.3mV/mA	50Hz~500Hz		
ACA	400.0mA	±(1.7%rdg + 4dgt)	3.3IIIV/MA	*10A continuous		
	4.000A	±(2.0%rdg + 6dgt)	0.03V/A			
	10.00A	±(1.8%rdg + 4dgt)	0.03V/A			

Function & Range		Remarks
→ 2.000V		Test Current (Typical): 0.25mA . Open Circuit Voltage: < 1.6 VDC
•)) 400.0Ω		Audible threshold: Between 5Ω and 120Ω . Open circuit voltage: <0.4VDC

Function		Function Accuracy 3) Input Imp		Remarks
4.0.0	DC	±(0.3%rdg + 4dgt)	1000M, 30pF	
ADP	ADP AC 1) ±(1.8%rdg + 5dgt)	nominal	RD700 : 50Hz~500Hz RD701 : 50Hz~3kHz	

- Model RD701 True RMS accuracy of ACV, ACA & AC-ADP is specified from 5 % (10% for AC400.0mV range) to 100 % of range, or otherwise specified. Maximum Crest Factor < 1.75: 1 at full scale & < 3.5: 1 at half scale, and with frequency components within the specified frequency bandwidth for non-sinusoidal waveforms.
- 2): Specified with battery voltage above 2.8V. Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V.
- 3): The accuracy of the sensor is not included.

Overload protections

Functions	Input terminals	Maximum rating input value	Maximum overload protection input
V		DC • AC 1000V	1050V rms, 1450Vpeak
ADP	V/Hz/ADP Ω/•)) /→+/HF	DC • AC 400mV	
Ω.•»).→+. +⊦. TEMP	/TEMP	Voltage and Current input prohibited	600V DC/AC rms
Hz		20VAC rms	
μA·mA	μΑ/mA • COM	DC · AC 400mA	0.63A/250V Fuse IR1.5kA
А	A A • COM DC AC 10A (10A continuous)		12.5A/500V Fuse IR 20kA

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

sanwa

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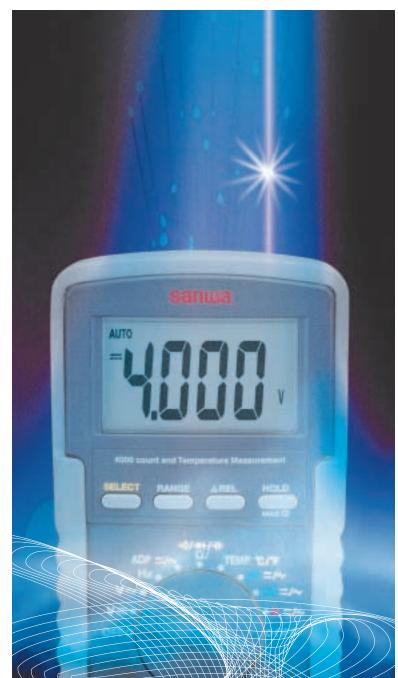


23 mm height characters

New Digital Multimeter RD700 RD701







High Input Impedance $1000M\Omega$ V, A, Ohm, Hz, C and Temperature measurement





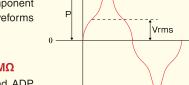




RD701 True RMS

●AC True RMS RD701 only

It is suitable to measure AC component value correctly regardless of waveforms such as square, triangle waveform.



High input impedance 1000MΩ

1000M Ω impedance for 400mV and ADP function.

OADP function

Prepare 400.0mV AC/DC single range (1000M ohm high input impedance) for adapter probe.



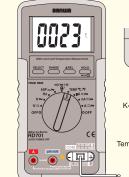


• Auto Power Off (enable or disable)

The meter goes to turn off automatically to extend battery life.

K-type temp measurement

Temp (-20°C to 250°C) can be measured with standard accessory K-250PC. With optional accessory K-type adapter (K-AD), you can use international mini plug Ktype Temp sensor to measure from -20°C to 300°C.







MAX hold

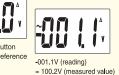
Hold max value as fast as 30ms with automatic up range capability in V, A and ADP functions.

Relative

Display Relative value



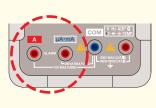




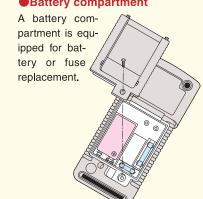
- 101.3V(reference value)

• Alarm for mis-plug for **Current Function**

The beeper warns you against misplug into current terminal to avoid damaging the measuring circuit and blowing the meter's fuse when you set the rotary SW to other function.



Battery compartment



Optional Accessories











Clamp Sensor Probe for DCA (with carrying case)

CL-22AD

Clamp Sensor Probe for AC/DC A (with carrying case)

CL-20D

Clamp Sensor Probe for ACA (with carrying case)

	Range	Output	Accuracy	Range	Output	Accuracy	Range	Output	Accuracy
DCA	30A	10mV/A	1.5rdg	20A	10mV/A	1.5rdg	_		
DCA	300A	1mV/A	+0.5mV	200A	1mV/A	+0.5mV		_	
404				20A	10mV/A	2.0%rdg	20A	AC2.0Vfs	1.5%fs
ACA	_			200A	1mV/A	+0.5mV	200A	AUZ.0 V 18	1.07018
Max. Clamp size	23mm				23mm			33mm	
Withstand	AC2000V				AC2000V			AC2000V	
Power Supply	R06×2			R06×2			<u> </u>		
Size / Weight	H179×W56×D26.5mm/120g			H179×	W56×D26.5mr	m/120g	H155	×W55×D20mr	m/80g

^{*1 2.0}rdg+0.5mV(200~300A)



*2 RD700 and RD701 can make temp measurement from -20°C up to 300°C only







