

# sanwa®

Digital Multimeter

# PM3



## Multi Function Compact DMM

### COMPACT

8.5mm thickness  
(exclusive of the rotary SW)

### MORE Functions

Hz / Capacitance / Duty /  
Auto Power Off / Relative Zero

### EASY Reading

13.6mm-high numeral  
character on LCD

## General Specifications

Measuring Method	$\Delta\Sigma$
Display	4000 counts max.
Range selection	Auto ranges
Over display	"O.L." display
Polarity	Automatic selection (only "—" is displayed)
Battery discharge	If the battery has been consumed and the voltage drops, the display shows.
Sampling rate	Approx. 3 times/sec.
Accuracy assurance temperature /humidity range	23±5°C 80%RH max. No condensation.
Operating temperature/humidity range	0~40°C 80%RH max. No condensation.
Storage temperature/humidity range	-10~50°C 70%RH max. No condensation.
Environmental condition	Operating altitude <2000m, Pollution degree II
Power supply	Coin type lithium battery CR2032 (3V), 1 pcs.
Power consumption	Approx.6mW TPY. (at DCV)
Battery life	Approx.200 hours at DCV
Dimension and weight	108(H)×56(W)×11.5(D)mm Approx.50g
Accessories	Instruction manual 1, Case holder 1
Safety	IEC 1010-1(EN61010-1) ≤DC-AC 500V: Designed to protection Class II requirement of IEC 1010-1, Pollution degree II.
EMC	EN50082-1 (EN55022), EN50082-1 (EN61000-4-2) EN50082-1 (EN61000-4-3), EN50082 (ENV50204) Installation Category(Overvoltage Category) II : Local Level Appliance Portable Equipment

## Measurement Range and Accuracy

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

Function	Range	Accuracy	Input Resistance	Remarks
DCV	400.0mV	±(0.7%rdg+3dgt)	≥100MΩ	
	4.000V		Approx.11MΩ	
	40.00V	±(1.3%rdg+3dgt)	Approx.10MΩ	
	400.0V			
	500V			
ACV	4.000V	±(2.3%rdg+10dgt)	Approx.11MΩ	*Accuracy in the case of sine wave. *Frequency range: 40~400Hz
	40.00V		Approx.10MΩ	
	400.0V	±(2.3%rdg+5dgt)		
	500V			
Ω	400.0Ω	±(2.0%rdg+5dgt)	*Open voltage: Approx. 0.4V *The measuring current changes according to the resistance measure.	
	4.000kΩ			
	40.00kΩ			
	400.0kΩ	±(5.0%rdg+5dgt)		
	4.000MΩ			
40.00MΩ	±(10%rdg+5dgt)			
CAP.	4.000nF	±(5.0%rdg+10dgt)	*Accuracy was measured after canceling display value by relative key.	
	40.00nF			
	400.0nF			
	4.000μF	±(10%rdg+15dgt)		
	40.00μF			
	200.0μF			
Hz	9.999Hz	±(0.7%rdg+5dgt)	*Accuracy in the case of sine wave. 9.999Hz~9.999kHz: 10Vrms Min. 99.99kHz: 40Vrms Min	
	99.99Hz			
	999.9Hz			
	9.999kHz			
	99.99kHz			
DUTY	0.1~99%	—	About input sensitivity and frequency characteristic: (Square wave DUTY 50% input) 2.5V 0 to peak input: ≥1kHz 6V 0 to peak input: ≥10kHz 40V 0 to peak input: ≥70kHz	
BUZZER		· Buzzer sounds at less than 10~60Ω · Open voltage: Approx. 0.4V		
DIODE		Open voltage: Approx 1.5V		



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SANWA ELECTRIC INSTRUMENT CO.,LTD.TOKYO,JAPAN

The specifications and other information in this catalogue are subject to change without prior notice. October 1, 2001.

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