

## Digital Multimeter PC5000a



### FEATURES

This instrument is portable digital multimeter designed for measurement of weak current circuits. It plays an important role in circuitry analysis by using additional functions as well as measurements of small type communication equipment, electrical home appliance, lighting voltage and batteries of various type.

- This instrument meets the requirements to Safety Standard IEC61010.
- The main unit case and the circuit board are made of fire retarding materials.
- AC coupling True RMS / AC+DC coupling True RMS
- Fast Response Digit: 5 times/sec.,  
Bar graph: 60 times/sec.
- 0.01  $\Omega$  of resistance and 0.01mV of AC/DC resolution
- MAX/MIN Recording through Auto range
- MAX/MIN Capture(Peak hold 0.8ms in duration) through Auto range
- Relative measurement through Auto range
- Optical link RS232C / USB interface(KB-RS2a/KB-USB2a are necessary for connecting to PC)



### Specifications

- Update Sampling Rate:  
4-4/5 Digital data: 5 times / sec nominal  
5-4/5 Digital data: 1.25 times / sec nominal
- Display: 50000 counts & 500000 counts  
(DCV/DCmV/Frequency(Hz)/Logic Frequency(Hz))
- Auto Power Off Timing: Idle for 17 minutes
- Low Battery Indication :  
Below approx. 7V
- Safety:  
IEC61010-1(EN61010-1) 2nd(2001)  
CAT. III 600V MAX / CAT. II 1000V
- Operating Temperature and Humidity Range:  
0 to 30°C, 80%RH; 31°C to 50°C RH No condensation
- Storage Temperature and Humidity Range:  
-20 to 60°C, 80% RH MAX. No condensation
- Battery life : Approx. 120h(Alkaline battery) at DCV range
- Power consumption : Approx. 42mW

※A battery for monitoring is preinstalled before shipping, therefore it may run down sooner than the battery life specified in the instruction manual.

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

PC5000a	Measuring range	Best Accuracy	Resolution	Input Impedance
DCV	500m/5/50/500/1000V	$\pm(0.03\%+2)$	0.01mV	10M $\Omega$
ACV	500m/5/50/500/1000V	$\pm(0.8\%+50)$	0.01mV	
DCA	500 $\mu$ /5000 $\mu$ /50m/500m/5/10A	$\pm(0.1\%+20)$	0.01 $\mu$ A	
ACA	500 $\mu$ /5000 $\mu$ /50m/500m/5/10A	$\pm(1.0\%+40)$	0.01 $\mu$ A	
Resistance	500/5k/50k/500k/5000k/50M $\Omega$	$\pm(0.2\%+6)$	0.01 $\Omega$	10M $\Omega$
Capacitance	50n/500n/5 $\mu$ /50 $\mu$ /500 $\mu$ /9999 $\mu$ F	$\pm(0.8\%+3)$	0.01pF	
Frequency	10Hz~200kHz	$\pm(0.02\%+4)$	0.001Hz	
Logic Frequency	5Hz~2MHz	$\pm(0.002\%+4)$	0.001Hz	
Duty Cycle	0.1%~99.99%	$\pm(3d/kHz+2)$	0.01%	
dBm	-11.76dbm~54.25dbm/600 $\Omega$	$\pm(0.25db+2)$	0.01dB	
4-20mA	4mA=0% 20mA=100%	$\pm 25d$	0.01%	
Continuity	Buzzer sounds at between 20 $\Omega$ and 200 $\Omega$ . Open Voltage approx 3V			
Diode Test	Open Voltage : approx. 3.5V			
Bandwidth	V: 45Hz~1kHz 1kHz~20kHz(below 500V) A: 45Hz~1kHz			
Fuse	12.5A/500V R20kA $\phi 6.3 \times 32$ 0.63A/500V R200kA $\phi 6.3 \times 32$			
Battery	6LF22 (9V) $\times 1$			
Size/Weight	H179 $\times$ W87 $\times$ D55mm/460g(including Holster)			
Standard Accessories included	Test lead(TL-82), Holster(H-50), Clip adapter(CL-13), Instruction Manual			