

# sanwa®

## TOKYO JAPAN

### DIGITAL MULTIMETER

# PC720M

## APPLICATIONS AND FEATURES

This instrument is a portable multimeter designed for the measurement of low-voltage circuit. This is used at small communications equipments, home electric appliances, voltage of lump line, various types of batteries, and circuit analyses with additional functions.

- AC True RMS / 9999 count & 6000 count
- 0.06% best accuracy
- Dual display capability with Backlight to simultaneously display voltage/current/frequency and AC/DC components of voltage/current
- High speed bar graph
- Conductance measurement / Capacitance measurement
- Temperature measurement (with K type thermocouple sensor : -50°C~1000°C)
- Frequency measurement (AC sine wave only)
- Logic frequency measurement / Duty cycle measurement
- MAX, MIN, AVE recording mode / Data hold / Range hold
- Relative value
- Auto power save (30min after the last operation) (cancelable)
- Backlight
- Protective holster with wall hanger and lead holder / Tilt stand
- PC Link system with optical Link USB cable (KB-USB7) and software (PC Link7)

\*KB-USB7 and PC Link7 are optional accessories

### Data Logging Mode

- Built-in memory: 87,328 data points (single display) / 43,664 data point (dual display)
- Selection of measurement interval  
0.05s/0.1s/0.5s/1s/2s/3s/4s/5s/10s/15s/30s/60s/120s/180s/300s/600s
- Auto-standby mode when a sampling speed of 30s or longer is selected
- Export logged data to PC

\*Optional accessories, KB-USB7 and PC Link7 are necessary

## SPECIFICATIONS

	Measuring range	Best accuracy	Resolution	Input impedance
DCV	60m/600m/9.999/99.99/999.9V	±(0.06%+2)	0.01mV	10MΩ
ACV	60m/600m/9.999/99.99/999.9V	±(0.5%+3)	0.01mV	
DCA	600μ/6000μ/60m/600m/6/10A	±(0.2%+4)	0.1μA	
ACA	600μ/6000μ/60m/600m/6/10A	±(0.6%+3)	0.1μA	
Resistance	600/6k/60k/600k/6M/60MΩ/99.99nS *1	±(0.1%+3)	0.1Ω	
Capacitance	60n/600n/6μ/60μ/600μ/6m/25mF	±(0.8%+3)*2	0.01nF	
Temperature	-50°C~1000°C (thermocouple K type)	±(0.3%+2)	1°C	
Frequency	15Hz~50kHz	±(0.04%+4)	0.01Hz	
Logic frequency	5Hz~1MHz	±(0.03%+4)	0.001Hz	
Duty cycle	0%~100%	±(3d/kHz+2)	0.01%	
Continuity	Buzzer sounds at between 20Ω and 300Ω Open voltage: approx. 1.2V			
Diode test	Open voltage: approx. 3.5V			

\*1 nS (Conductance): High-value resistance of Giga-Ohms for leakage measurements. Conductance is the inverse of Resistance, that is S=1/Ω or nS=1/GΩ  
\*2 Accuracy of film capacitor or equivalent with low leakage.

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.



Operation method	Δ-Σ
AC measuring method	True RMS
Display	6000 count and 9999 count
Range selection	Auto and manual ranges
Overload	"O.L" is displayed
Polarity	Automatic selection (only "-" is displayed when negative voltage is inputted.)
Battery low warning	Battery (⊕) mark lights when the internal battery's power is below approx. 7V
Sampling rate	Numeric part : 5 times/sec Bar graph part : 60 times/sec
Power consumption	Approx. 48mW Approx. 0.45mW (Auto power save)
Bandwidth	V : 40Hz~3kHz, 3kHz~20kHz (below 99.99V) A : 40Hz~1kHz
EN61010-1 CAT.II	1000V
EN61010-1 CAT.III	600V
Fuse / Battery	11A/1000V IR20kA Φ10x38mm 6LR61(9V) x 1 0.4A/1000V IR30kA Φ6.3x32mm
Size / Mass	H184 x W86 x D52mm / 430g
Standard accessories included	Test Lead (TL-23a), Holster (H-700), Thermocouple K type (K-250PC), Instruction Manual

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