

# sanwa®

## TOKYO JAPAN

### DIGITAL MULTIMETER

# PM7a

### APPLICATIONS AND FEATURES

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

- 4000 count
- 0.7% best accuracy
- Range hold
- Auto power off(15 min.)
- Low power ohm(input voltage 0.4V) at continuity range
- Power saving design

### SPECIFICATIONS

|            | Measuring range                                                         | Best accuracy   | Resolution   | Input impedance                   |
|------------|-------------------------------------------------------------------------|-----------------|--------------|-----------------------------------|
| DCV        | 400m/4/40/400/500V                                                      | $\pm(0.7\%+3)$  | 0.1mV        | DCV :<br>10M $\sim$ 100M $\Omega$ |
| ACV        | 4/40/400/500V                                                           | $\pm(2.3\%+10)$ | 0.001V       | ACV :<br>10M $\sim$ 11M $\Omega$  |
| Resistance | 400/4k/40k/400k/4M/40M                                                  | $\pm(2.0\%+5)$  | 0.1 $\Omega$ |                                   |
| Continuity | Buzzer sounds at less than 10 $\sim$ 120 $\Omega$ . Open voltage : 0.4V |                 |              |                                   |
| Diode test | Open voltage : approx. 1.5V                                             |                 |              |                                   |

|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| Operation method                 | $\Delta$ - $\Sigma$ method                                                    |
| Display                          | 4000 count                                                                    |
| Range selection                  | Auto and manual ranges                                                        |
| Over display                     | "OL" is displayed(except DC/AC 500V ranges)                                   |
| Polarity                         | Automatic selection(only "-" is displayed when negative voltage is inputted.) |
| Battery low warning              | "E" mark lights when the internal battery's power is below approx. 2.4V       |
| Sampling rate                    | Approx. 3 times/sec                                                           |
| Operating temperature / humidity | -5 $\sim$ 40°C, 80%RH(Max), No condensation                                   |
| Storage temperature / humidity   | -10 $\sim$ 50°C, 70%RH(Max), No condensation                                  |
| Environmental condition          | Altitude 2000m or below, pollution degree II                                  |
| Power consumption                | Approx. 5mW(at DCV)                                                           |
| Bandwidth                        | 40 $\sim$ 400Hz                                                               |
| Battery                          | LR44 x 2                                                                      |
| Size / Mass                      | H115 x W57 x D18mm / 85g                                                      |
| Standard accessories included    | Instruction Manual                                                            |



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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SANWA ELECTRIC INSTRUMENT CO., LTD.

Dempa Bldg, 4-4 Sotokanda 2-Chome, Chiyoda-Ku, Tokyo 101-0021 Japan  
Tel:+81-3-3251-0941 Fax:+81-3-3256-9740

[www.sanwa-meter.co.jp](http://www.sanwa-meter.co.jp)

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