

sanwa®

TOKYO JAPAN

HYBRID DIGITAL MULTIMETER

PM33a

APPLICATIONS AND FEATURES

This instrument is a pocket type digital multimeter designed for the 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.

Hybrid pocket size DMM + Clamp meter

- AC and DC currents measurable up to 100A
- Current measurement with thin U-shaped current sensor(10mm)
- Resistance, Capacitance, Frequency, and Duty cycle measurement
- MAX, MIN value
- Data hold
- Range hold
- Relative value
- Auto power save(30min after the last operation)

SPECIFICATIONS

| | Measuring range | Best accuracy | Resolution |
|-------------|-------------------------------------------------------------|---------------|------------|
| DCV | 660m/6.6/66/600V | ±(0.7%+3) | 0.1mV |
| ACV | 660m/6.6/66/600V | ±(1.4%+6) | 0.1mV |
| DCA | 100A | ±(2.0%+5) | 0.1A |
| ACA | 100A | ±(2.0%+5) | 0.1A |
| Resistance | 660/6.6k/66k/660k/6.6M/66MΩ | ±(0.9%+3) | 0.1Ω |
| Capacitance | 6.6n/66n/660n/6.6μ/66μ/660μ/6.6m/66mF | ±(5.0%+10) | 0.001nF |
| Frequency | 660/6.6k/66kHz | ±(0.5%+3) | 0.1Hz |
| Duty cycle | 20~80% | ±(0.5%+5) | |
| Continuity | Buzzer sounds at less than 30Ω. Open voltage : approx. 1.2V | | |
| Diode test | Open voltage : approx. 3V | | |

| | |
|----------------------------------------------------|-------------------------------------------------------------------------------|
| Operation method | Double integration |
| AC measuring method | Average sensing |
| Display | 6600 count |
| Range selection | Auto and Manual ranges |
| Overload | "OL" 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 2.3V |
| Sampling rate | Approx. 3 times/sec |
| Guaranteed accuracy temperature and humidity range | 23°C±5°C, below 80%RH, No condensation |
| Operating temperature /humidity | 5~40°C, 80%RH(Max), No condensation |
| Storage temperature /humidity | -10°C~50°C, below 80%RH, No condensation |
| Environmental condition | Altitude 2000m or below, pollution degree II |
| Power consumption | Approx. 7mW TYP(at DCV) |
| Clamp diameter | 10mm |
| EN61010-1 CAT.II | 600V |
| EN61010-1 CAT.III | 300V |
| Battery | LR03 x 2 |
| Size / Mass | H130 x W75 x D19.9mm / 160g |
| Standard accessoriesincluded | 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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