

Code: MM-UA9233D

## DIGITAL MULTIMETER **MM-UA9233D** UYIGAO



The MM-UA9233D is a universal digital meter used to measure: voltage, current, resistance, capacity, frequency, temperature and checking the correct operation of diodes. The device has an automatic change of measuring ranges. In addition, the meter has an electric field detection function (NCV).

The kit includes a thermocouple of type "K" (chromel/alumel).

|                         |   |
|-------------------------|---|
| DC voltage measurement: | $2\text{ V} \pm (0.5\%) @ 0.001\text{ V}$ ,<br>$20\text{ V} \pm (0.5\%) @ 0.01\text{ V}$ ,<br>$200\text{ V} \pm (0.8\%) @ 0.1\text{ V}$ ,<br>$600\text{ V} \pm (0.8\%) @ 1\text{ V}$  |
| AC voltage measurement: | $2\text{ V} \pm (0.8\%) @ 0.001\text{ V}$ ,<br>$20\text{ V} \pm (0.8\%) @ 0.01\text{ V}$ ,<br>$200\text{ V} \pm (1.0\%) @ 0.1\text{ V}$ ,<br>$600\text{ V} \pm (1.0\%) @ 1\text{ V}$  |
| DC current measurement: | $200\text{ }\mu\text{A} \pm (1.0\% + 5) @ 0.1\text{ }\mu\text{A}$ ,<br>$2000\text{ }\mu\text{A} \pm (1.0\% + 5) @ 1\text{ }\mu\text{A}$ ,<br>$20\text{ mA} \pm (1.0\% + 5) @ 0.01\text{ mA}$ ,<br>$200\text{ mA} \pm (1.0\% + 5) @ 0.1\text{ mA}$ ,<br>$2\text{ A} \pm (2.0\% + 10) @ 0.001\text{ A}$ ,<br>$10\text{ A} \pm (2.0\% + 10) @ 0.01\text{ A}$ |
| AC current measurement: | $200\text{ }\mu\text{A} \pm (1.5\%) @ 0.1\text{ }\mu\text{A}$ ,<br>$2000\text{ }\mu\text{A} \pm (1.5\%) @ 1\text{ }\mu\text{A}$ ,<br>$20\text{ mA} \pm (1.5\%) @ 0.01\text{ mA}$ ,<br>$200\text{ mA} \pm (1.5\%) @ 0.1\text{ mA}$ ,<br>$2\text{ A} \pm (2.5\%) @ 0.001\text{ A}$ ,<br>$10\text{ A} \pm (2.5\%) @ 0.01\text{ A}$                           |



# DATA SHEET

|  |   |
|--|---|
| Resistance measurement:                    | 200 $\Omega$ $\pm$ (0.8%) @ 0.1 $\Omega$ ,<br>2 k $\Omega$ $\pm$ (0.8%) @ 0.001 k $\Omega$ ,<br>20 k $\Omega$ $\pm$ (0.8%) @ 0.01 k $\Omega$ ,<br>200 k $\Omega$ $\pm$ (0.8%) @ 0.1 k $\Omega$ ,<br>2 M $\Omega$ $\pm$ (1.2%) @ 0.001 M $\Omega$ ,<br>20 M $\Omega$ $\pm$ (1.2%) @ 0.01 M $\Omega$                          |
| Capacitance measurement:                   | 9.999 nF $\pm$ (4%) @ 0.001 nF ,<br>99.99 nF $\pm$ (4%) @ 0.01 nF ,<br>999.9 nF $\pm$ (4%) @ 0.1 nF ,<br>9.999 $\mu$ F $\pm$ (4%) @ 0.001 $\mu$ F ,<br>99.99 $\mu$ F $\pm$ (4%) @ 0.01 $\mu$ F ,<br>999.9 $\mu$ F $\pm$ (4%) @ 0.1 $\mu$ F ,<br>9.999 mF $\pm$ (5%) @ 0.001 mF ,<br>99.99 mF @ 0.01 mF - visual measurement |
| Inductance measurement:                    | —   |
| Frequency measurement:                     | 9.999 Hz ... 9.999 MHz $\pm$ (1%) @ 0.001 Hz ... 0.001 MHz  |
| Square-wave signal duty ratio measurement: | 0.1 ... 99.9 % $\pm$ (3.0%rd) @ 0.1 %   |
| Temperature measurement:                   | • $^{\circ}$ C :<br>-20 ... 300 $^{\circ}$ C $\pm$ (1.0%) @ 1 $^{\circ}$ C ,<br>301 ... 1000 $^{\circ}$ C $\pm$ (1.9%) @ 1 $^{\circ}$ C ,<br>• $^{\circ}$ F :<br>-4 ... 600 $^{\circ}$ F $\pm$ (1.2%) @ 1 $^{\circ}$ F ,<br>601 ... 1832 $^{\circ}$ F $\pm$ (1.9%) @ 1 $^{\circ}$ F   |
| hFE:                                       | ✓   |
| Diode test:                                | ✓   |
| Sound signal of the continuity test:       | ✓   |
| Checking TTL logic states:                 | —   |
| RS-232:                                    | —   |
| Main features:                             | <ul style="list-style-type: none"><li>• Large, readable LCD display with backlight</li><li>• Hold - stopping the meter reading</li><li>• NCV - electric field detection function</li><li>• Built-in LED flashlight</li><li>• Aesthetic and solid construction</li></ul>   |
| Power supply:                              | 9V, type 6F22 battery (not included)  |
| Weight:                                    | 0.2 kg  |
| Dimensions:                                | 68 x 147 x 48 mm  |
| Manufacturer / Brand:                      | UYIGAO  |
| Guarantee:                                 | 2 years   |