

2000- to 5000-Count TRMS Digital Multimeter Models MX21, MX22, MX23, MX24B & MX26



Models MX21, MX22, MX23, MX24B and MX25 are excellent digital multimeters designed for everyday electrical applications. Their rugged, shockproof, protective holster serves as protection as well as for storage.

All models have a large display. The Models MX23, MX24B and MX26 also

incorporate a 34-segment bargraph with a backlight, making it easier to read when the instrument is used in a poorly lit environment.

Their ergonomic design and balance make them very comfortable to hold and operate function selections quick and easy using the large rotary dial.

All standard multimeter functions are available including volts, amps, frequency, ohms, continuity, diode checking. Several models offer a low impedance AC volt mode useful in eliminating ghosting.

All models include a pair of test leads, 9V battery and a user manual.

Features

- TRMS (AC + DC) measurements for accurate results (except Model MX21)
- Bandwidth up to 100kHz
- An innovative design with a compact, double insulated rugged case
- Large, easy-to-read display with bargraph and backlight (model dependent)
- Functions include: Min/Max, Avg, Peak, Mem and/or Auto Mem (model dependent)
- Measure AC volts up to 750V and DC volts up to 1000V (model dependent)
- Includes rugged, shockproof, protective holster and test leads. Models MX23, MX24B and MX26 include Multistand (for lead and probe storage)
- Dustproof, IP40 rated

Applications

- Measure AC volts and amps in power panels
- Check continuity
- Troubleshoot motor controlled circuits
- Measure resistance, capacitance and frequency



Model MX26 measuring feeder voltage on a 3-phase panel

Specifications

| MODELS | MX21 | MX22 | MX23 | MX24B | MX26 |
|--------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| AC CURRENT | | | | | |
| Range | 200A (w/MN291 clamp) | 400 μ A to 10A switch selectable | – | 500mA to 10AAC/DC | 500mA to 10AAC/DC |
| Resolution | 0.1A | 0.1 μ A to 10mA | – | 100 μ A to 10mA | 100 μ A to 10mA |
| Accuracy ⁽¹⁾ | 1% of Reading + 4cts (2% with MN291 clamp) | 1.2% of Reading + 5cts | – | 1.5% of Reading + 2cts 2.5% of Reading + 5cts | 1.5% of Reading + 2cts 2.5% of Reading + 2cts |
| AC VOLTAGE⁽²⁾ | | | | | |
| Range | 200mV to 600V (Auto-Ranging) | 40mV to 600V | 0.5 to 750V ⁽³⁾ | 0.5 to 750V ⁽³⁾ | 0.5 to 750V |
| Resolution | 0.1mV to 1V | 0.1mV to 1V | 0.1mV to 1V | 0.1mV to 1V | 0.1mV to 1V |
| Accuracy ⁽¹⁾ | 1.5% of Reading + 8cts | 1% of Reading + 4cts | 1.5% of Reading + 2cts | 1.5% of Reading + 2cts | 1% of Reading + 3cts |
| DC CURRENT | | | | | |
| Range | – | 400 μ A to 10A switch selectable | – | 500mA to 10A | 500mA to 10A |
| Resolution | – | 0.1 μ A to 10mA | – | 100 μ A to 10mA | 100 μ A to 10mA |
| Accuracy ⁽¹⁾ | – | 1% of Reading + 3cts | – | 0.3% of Reading + 2cts 1% of Reading + 5cts | 0.3% of Reading + 2cts 1% of Reading + 2cts |
| DC VOLTAGE | | | | | |
| Range | 20mV to 600V (Auto-Ranging) | 40mV to 600V | 0.5 to 1000V | 0.5 to 1000V | 0.5 to 1000V |
| Resolution | 0.01mV to 1V | 0.01mV to 1V | 0.1mV to 1V | 0.1mV to 1V | 0.1mV to 1V |
| Accuracy ⁽¹⁾ | 1% of Reading + 4cts | 0.3% of Reading + 2cts | 0.3% of Reading + 2cts | 0.3% of Reading + 2cts | 0.3% of Reading + 2cts |
| RESISTANCE | | | | | |
| Range | 200 Ω to 20M Ω | 400 Ω to 40M Ω | 500 Ω to 50M Ω | 500 Ω to 50M Ω | 500 Ω to 50M Ω |
| Resolution | 100m Ω to 10k Ω | 100m Ω to 10k Ω | 100m Ω to 10k Ω | 100m Ω to 10k Ω | 100m Ω to 10k Ω |
| Accuracy ⁽¹⁾ | 1% of Reading + 4cts | 0.5% of Reading + 4cts | 0.3% of Reading + 3cts | 0.3% of Reading + 3cts | 0.3% of Reading + 3cts |
| CONTINUITY | | | | | |
| Range | Beeps < 750 Ω Open circuit voltage < 2V | Beeps < 40 Ω Open circuit voltage < 2V | Beeps below detection threshold of 10 to 20 Ω | Beeps below detection threshold of 10 to 20 Ω | Beeps below detection threshold of 10 to 20 Ω |
| DIODE TEST | | | | | |
| Resolution | 0 to 3V; Open circuit voltage 7V | 0 to 4V | 0 to 1.999V | 0 to 1.999V | 0 to 1.999V |
| CAPACITANCE | | | | | |
| Range | – | – | 50nF to 50mF | 50nF to 50mF | 50nF to 50mF |
| Accuracy ⁽¹⁾ | – | – | 1% of Reading + 2cts | 1% of Reading + 2cts | 1% of Reading + 2cts |
| FREQUENCY⁽²⁾ | | | | | |
| Range | – | 4kHz to 40MHz | 5Hz to 500kHz ⁽⁴⁾ | 5Hz to 500kHz ⁽⁴⁾ | 5Hz to 500kHz ⁽⁴⁾ |
| Accuracy ⁽¹⁾ | – | 0.1% of Reading + 3cts | 0.03% of Reading + 1ct | 0.03% of Reading + 1ct | 0.03% of Reading + 1ct |
| GENERAL | | | | | |
| Digital Display | 2000-count | 4000-count | 5000-count | 5000-count backlit | 5000-count backlit |
| Analog Bargraph | – | 34-segment | 34-segment | 34-segment | 34-segment |
| Power Source | 9V Alkaline battery | 9V Alkaline battery | 9V Alkaline battery | 9V Alkaline battery | 9V Alkaline battery |
| Dimensions | 6.7 x 3.15 x 1.37" (170 x 80 x 35mm) | 6.7 x 3.15 x 1.37" (170 x 80 x 35mm) | 6.7 x 3.15 x 1.37" (170 x 80 x 35mm) | 6.7 x 3.15 x 1.37" (170 x 80 x 35mm) | 6.7 x 3.15 x 1.37" (170 x 80 x 35mm) |
| Weight | 0.66 lb (300g) | 0.66 lb (300g) | 0.66 lb (300g) | 0.66 lb (300g) | 0.66 lb (300g) |
| SAFETY | | | | | |
| Safety Rating | EN 61010, 600V Cat. III | EN 61010, 600V Cat. III | EN 61010, 600V Cat. III | EN 61010, 600V Cat. III | EN 61010, 600V Cat. III |
| Double Insulation <input type="checkbox"/> | Yes | Yes | Yes | Yes | Yes |

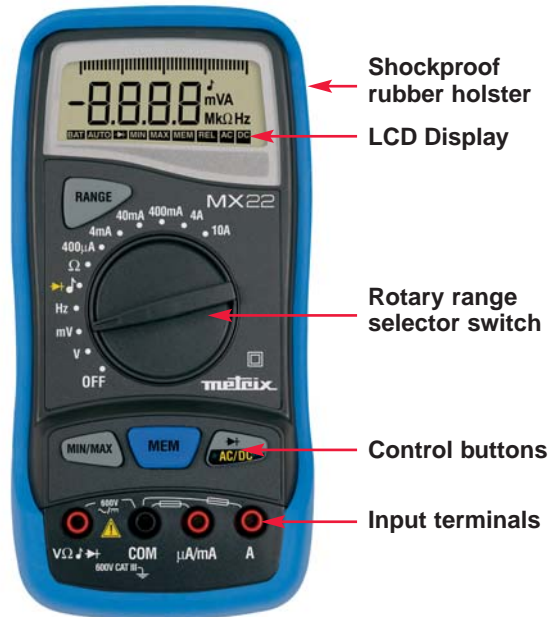
⁽¹⁾ Accuracy dependent on range

⁽²⁾ 40 to 500Hz range dependent

⁽³⁾ Low Z range (500k Ω); 600V switch selectable

⁽⁴⁾ 50,000-count display for frequency measurement

Construction



Model MX22



MX 20 Series includes test leads, holster, 9V Alkaline battery and user manual.

| ORDERING INFORMATION | CATALOG NO. |
|-------------------------------------------------------------------|---------------|
| DMM Model MX21 (2000-count, with Holster) | Cat. #2119.21 |
| DMM Model MX22 (4000-count, with Holster) | Cat. #2119.22 |
| DMM Model MX23 (5000-count, with Holster) | Cat. #2119.23 |
| DMM Model MX24B (5000-count, with Holster) | Cat. #2119.24 |
| DMM Model MX26 (5000-count, with Holster) | Cat. #2119.25 |
| Includes test leads, holster, 9V Alkaline battery and user manual | |

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