

Selection Guide — Multimeters



B

Electrical Test Instruments

| Manufacturer | Page | Counts | IEC1010 CAT III | IEC1010 CAT IV | Voltage AC/DC | Current AC/DC | Typical DC Accuracy | Frequency | Ohms | True RMS | Capacitance | Continuity | Diode |
|------------------------|------|---------|-----------------|----------------|---------------|---------------|---------------------|------------|---------|----------|-------------|------------|-------|
| Process Meter | | | | | | | | | | | | | |
| Fluke 787 | B6 | 30,000 | 1000V | | 1000 | 1A | 0.10% | 19.999 kHz | 40 MΩ | • | | • | • |
| Graphical DMM | | | | | | | | | | | | | |
| Fluke 867BE | B7 | 32,000 | 1000V | | 1000 | 10A | 0.025% | 10 MHz | 32 MΩ | • | • | • | • |
| Handheld DMM | | | | | | | | | | | | | |
| Fluke 189 | B9 | 50,000 | 1000V | 600V | 1000 | 10A | 0.025% | 1 MHz | 500 MΩ | • | • | • | • |
| Fluke 187 | B9 | 50,000 | 1000V | 600V | 1000 | 10A | 0.025% | 1 MHz | 500 MΩ | • | • | • | • |
| Fluke 87-III/87E-III | B8 | 20,000 | 1000V | | 1000 | 10A | 0.05% | 200 kHz | 40 MΩ | • | • | • | • |
| Fluke 85-III | B8 | 4,000 | 1000V | | 1000 | 10A | 0.08% | 200 kHz | 40 MΩ | • | • | • | • |
| Megger M8035/M8037 | B11 | 40,000 | 1000V | | 750/1,000 | 10A | 0.08% | 1 MHz | 40 MΩ | • | • | • | • |
| Fluke 177 | B10 | 6,001 | 1000V | 600V | 1000 | 10A | 0.09% | 200 kHz | 50 MΩ | • | • | • | • |
| Fluke 179 | B10 | 6,002 | 1000V | 600V | 1000 | 10A | 0.09% | 200 kHz | 50 MΩ | • | • | • | • |
| MeterMan HD115B | B11 | 1,999 | | | 1000/1500 | 10A | 0.10% | | 20 MΩ | | • | • | • |
| MeterMan HD110B | B11 | 1,999 | 1000V | 600V | 1000/1500 | 10A | 0.10% | | 20 MΩ | | • | • | • |
| Fluke 83-III | B8 | 4,000 | 1000V | | 1000 | 10A | 0.10% | 200 kHz | 40 MΩ | • | • | • | • |
| MeterMan HD160B | B11 | 10,000 | | | 1000/1500 | 10A | 0.10% | | 40 MΩ | • | • | • | • |
| MeterMan 37XR | B13 | 10,000 | 1000V | | 750/1000 | 10A | 0.10% | 10 MHz | 40 MΩ | • | • | • | • |
| Fluke 27 | B12 | 32,000 | 1000V | | 1000 | 10A | 0.10% | | 32 MΩ | | • | • | • |
| AEMC MX57EX | B12 | 5,000 | | | 750/1000 | 500 mA | 0.15% | | 40 MΩ | | • | • | • |
| Fluke 175 | B10 | 6,000 | 600V | | 1000 | 10A | 0.15% | 200 kHz | 50 MΩ | • | • | • | • |
| MeterMan 38XR | B13 | 10,000 | 1000V | 600V | 600 | 10A | 0.25% | 10 MHz | 40 MΩ | • | • | • | • |
| Fluke 77-3 | B10 | 3,200 | 600V | | 1000 | 10A | 0.3% | | 32 MΩ | | • | • | • |
| Fluke 73-3 | B10 | 3,200 | | | 600 | 10A | 0.3% | | 32 MΩ | | • | • | • |
| Extech 470 | B14 | 4,000 | 600V | | 600 | 20A | 0.3% | 10 MHz | 40 MΩ | • | | • | • |
| MeterMan DM-16XL | B14 | 2,000 | 600V | | 750/1000 | 10A | 0.5% | 15 MHz | 20 MΩ | | • | • | • |
| MeterMan DM-15XL | B14 | 2,000 | | | 750/1000 | 10A | 0.5% | | 2000 MΩ | | • | • | • |
| Extech 450 | B14 | 2,000 | 600V | | 600 | 20A | 0.5% | | 20 MΩ | | • | • | • |
| MeterMan DM-35XL | B14 | 3,200 | 600V | | 600 | 10A | 0.5% | | 32 MΩ | | • | • | • |
| MeterMan 34XR | B13 | 4,000 | 600V | | 750/1000 | 10A | 0.5% | 40 MHz | 40 MΩ | • | • | • | • |
| MeterMan DM-10XL | B14 | 2,000 | | | 750/1000 | 10 DCA | 0.7% | | 20 MΩ | | • | • | • |
| MeterMan 33XR | B13 | 4,000 | 600V | | 750/1000 | 10A | 0.7% | 40 MHz | 40 MΩ | | • | • | • |
| Fluke 112 | B15 | 6,000 | 600V | | 600 | 10A | 0.7% | 50 Khz | 40 MΩ | • | • | • | • |
| Fluke 111 | B15 | 6,000 | 600V | | 600 | 10A | 0.7% | 50 Khz | 40 MΩ | • | • | • | • |
| Fluke 110 | B15 | 6,000 | 600V | | 600 | | 0.7% | 50 Khz | 40 MΩ | • | • | • | • |
| MeterMan DM-5XL | B14 | 2,000 | | | 500/750 | 200 mADC | 0.8% | | 2 MΩ | | • | • | • |
| Fluke 16 | B16 | 4,000 | 600V | | 600 | 200 mA | 0.9% | | 40 MΩ | | • | • | • |
| Fluke 12 | B15 | 4,000 | 600V | | 600 | | 0.9% | | 40 MΩ | | • | • | • |
| MeterMan 30XR | B13 | 2,000 | 300V | | 750/1000 | 10A | 1.0% | | 20 MΩ | | • | • | • |
| Fluke 7-600 | B16 | 4,000 | 600V | | 600 | | 1.5% | | 40 MΩ | | • | • | • |
| Probe Style | | | | | | | | | | | | | |
| DM73B | B17 | 3,400 | 300V | | 600 | | 1.5% | | 34 MΩ | | | • | • |
| Bench DMM | | | | | | | | | | | | | |
| Fluke 45 | B19 | 100,000 | | | 750/1000 | 10A | 0.025% | 1 MHz | 100 MΩ | • | | • | • |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| MeterMan BDM40 | B20 | 19,999 | | | 1000/1200 | 20A | 0.2% | 1 KHZ | 20 MΩ | • | | | • |
| Analog Meters | | | | | | | | | | | | | |
| Triplet 630-PL/630-PLK | B21 | N/A | | | 1000 | 10A | 1.5% | | 20 MΩ | | | | |
| Triplet 60 | B21 | N/A | | | 1000 | 1A | 1.5% | | 10 MΩ | | | | |
| Simpson 260 Series | B22 | N/A | | | 1000 | 10A | 2.0% | | 20 MΩ | | | • | |
| Triplet 310 | B21 | N/A | | | 1200 | 600 mADC | 4.0% | | 20 MΩ | | | | |
| Triplet 310-C | B21 | N/A | | | 600 | 600 mADC | 4.0% | | 20 MΩ | | | | |