

30XR

Manual ranging digital multimeter with non-contact voltage tester.



- Non-contact voltage tester to 600 V ac
- Magne-Grip™ Holster with magnetic hanging strap
- 600 V ac/dc
- 10 Amps ac/dc, fully safety fused
- Resistance to 20 MΩ
- Continuity beeper
- 1.5 V / 9 V battery test under load
- Min/Max and Data Hold
- Separate door for easy battery and fuse access
- CAT III 300 V, CAT II 600 V rated
- UL (cULus) listed
- One-year warranty

30XR Specifications (at 23 °C ± 5 °C, <75% R.H. non-condensing)

DC Voltage

| | |
|-----------------|--|
| Ranges | 200 mV, 2 V, 20 V, 200 V, 600 V |
| Accuracy | all ranges: ± (0.5% reading + 1 digit) |
| Resolution | 1000 µV |
| Input Impedance | 10 MΩ |

AC Voltage (45 Hz to 500 Hz)

| | |
|-----------------|---|
| Ranges | 2000 mV, 2 V, 20 V, 200 V, 600 V |
| Accuracy | all ranges: ± (0.5% reading + 4 digits) |
| Resolution | 1000 µV |
| Input Impedance | 10 MΩ |

DC Current

| | |
|---|--|
| Ranges | 2000 µA, 2 mA, 20 mA, 200 mA, 20 A |
| Accuracy | 2000 µA to 200 mA: ± (0.5% reading + 3 digits) |
| 10 A range: ± (2.5% reading + 3 digits) | |

Resolution

| | |
|---------------------|---------------------------|
| Voltage Ranges (MΩ) | 2000 µA range: 1 mV/1 µA |
| | 2 mA range: 100 mV/1 mA |
| | 20 mA range: 10 mV/1 mA |
| | 200 mA range: 4.5 mV/1 mA |
| | 20 A range: 45 mV/1 A |

AC Current (45 Hz to 500 Hz)

| | |
|---|---|
| Ranges | 200 µA, 2 mA, 20 mA, 200 mA, 20 A |
| Accuracy | 200 µA to 200 mA: ± (0.5% reading + 4 digits) |
| 20 A range: ± (2.5% reading + 4 digits) | |

Resolution

| | |
|----------------|----------------|
| Voltage Ranges | See DC Current |
|----------------|----------------|

Resistance

| | |
|---|--|
| Ranges | 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ |
| Accuracy | 200 Ω to 200 kΩ: ± (0.5% reading + 4 digits) |
| 2 MΩ range: ± (2.5% reading + 4 digits) | |

Resolution

| | |
|-------------------------------------|-------------------------|
| Open Circuit Voltage | 200 mV range: 0.05 V dc |
| All other ranges: 0.05 V dc typical | |

Continuity

| | |
|-----------------------|----------------|
| Available Indications | 25 kΩ, ± 25 kΩ |
| Response Time | 200 ms |

Diode Test

| | |
|--------------|-----------------------------|
| Test Current | 1.0 mA (approximate) |
| Accuracy | ± (0.5% reading + 3 digits) |
| Resolution | 0.001 V |

Open Circuit Voltage

| | |
|----------------------|----------------|
| Open Circuit Voltage | 0.05 V typical |
|----------------------|----------------|

Battery Test

| | |
|-------------------|-----------------------------|
| Ranges | 1.5 V, 9 V |
| Accuracy | ± (0.5% reading + 2 digits) |
| Resolution | 1 mV, 10 mV |
| Load Test Current | 1.5 V range: 150 mA typical |
| | 9 V range: 5 mA typical |

Non-Contact Voltage Detector (NCV)

| | |
|-------------------------------|----------------|
| AC Volt | 20 to 600 V ac |
| Red LED and Audible Indicator | |

Meterman Service Manual

Puja Mehta

Meterman Service Manual:

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unlike a normal chemical reaction that forms molecules nuclear reactions result in the transformation of one element into another this property of nuclear reactions is used in nuclear power plants to gather nuclear energy the three common types of radiations are explained below

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in all accelerators the particles move in a vacuum to avoid collisions with gas molecules when neutrons are required for transmutation reactions they are usually obtained from radioactive decay reactions or from various nuclear reactions occurring in nuclear reactors

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nuclear reaction a nuclear reaction is a process in which two nuclei or a nucleus and an external subatomic particle collide to produce one or more new nuclides the nuclear reaction is a reaction that involves nucleoids the reactant nucleoid called the parent nucleoid usually transforms into a different nucleoid called the daughter

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