

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: ± (1.5 % rdg + 1 digit)
Resolution	100 µV
Input Impedance	10 MΩ

AC Voltage (45 Hz to 500 Hz)

Ranges	200 mV, 2 V, 20 V, 200 V, 600 V
Accuracy	all ranges: ± (1.5 % rdg + 4 digits)
Resolution	100 µV
Input Impedance	10 MΩ

DC Current

Ranges	200 µA, 2 mA, 20 mA, 200 mA, 10 A
Accuracy	200 µA to 200 mA ranges: ± (1.5 % rdg + 1 digit) 10 A range: ± (2.0 % rdg + 3 digits)
Resolution	0.1 µA
Voltage Burden (Max)	200 µA range: 1 mV/µA 2 mA range: 100 mV/1mA 20 mA range: 1.1 mV/10 mA 200 mA range: 4.4 mV/1 mA 10 A range: 40 mV/1 A

AC Current (45 Hz to 500 Hz)

Ranges	200 µA, 2 mA, 20 mA, 200 mA, 10 A
Accuracy	200 µA to 200 mA ranges: ± (2.0 % rdg + 4 digits) 10 A range: ± (2.5 % rdg + 4 digits)
Resolution	0.1 µA
Voltage Burden	See DC Current

Resistance

Ranges	200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ
Accuracy	200 Ω to 200 kΩ ranges: ± (1.0 % rdg + 4 digits) 2 MΩ range: ± (1.5 % rdg + 4 digits) 20 MΩ range: ± (2.0 % rdg + 5 digits)
Resolution	100 mΩ
Open Circuit Voltage	200 Ω range: 3.0 V dc All other ranges: 0.3V dc typical

Continuity

Audible Indication	75 Ω ± 25 Ω
Response Time	100 ms

Diode Test

Test Current	1.0 mA (approximate)
Accuracy	± (1.5 % rdg + 3 digits)
Resolution	0.001 V
Open Circuit Voltage	3.0 V typical

Battery Test

Ranges	1.5 V, 9 V
Accuracy	± (1.5 % rdg + 2 digits)
Resolution	1 mV, 50 mV
Load Test Current	1.5 V range: 150 mA typical 9 V range: 5 mA typical

Non-Contact Voltage Detector (NCV)

AC Voltage	70 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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