

# 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)

<b>DC Voltage</b>	
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
<b>AC Voltage (45 Hz to 500 Hz)</b>	
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
<b>DC Current</b>	
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 + 1 digit)
Resolution	0.1 µA
Voltage Burden (Max)	200 µA range: 1 mV/µA 2 mA range: 100 mV/1 mA 20 mA range: 13 mV/1 mA 200 mA range: 4.6 mV/1 mA 10 A range: 40 mV/1 A
<b>AC Current (45 Hz to 500 Hz)</b>	
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
<b>Resistance</b>	
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
<b>Continuity</b>	
Audible Indication	75 Ω ± 25 Ω
Response Time	100 ms
<b>Diode Test</b>	
Test Current	1.0 mA (approximate)
Accuracy	± (1.5 % rdg + 3 digits)
Resolution	0.001 V
Open Circuit Volts	3.0 V typical
<b>Battery Test</b>	
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
<b>Non-Contact Voltage Detector (NCV)</b>	
AC Volts	70 to 600 V ac
Red LED and Audible Indicator	

# Meterman Service Manual

**Sabine Zange**



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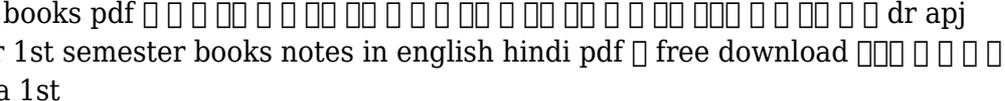
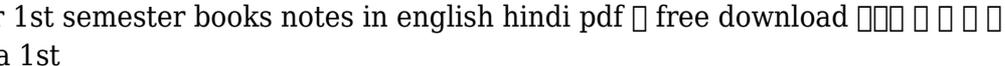
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web this circuit is used to test n mosfets the power kind e g irf830 whether it works or not if it is not working the led will not flash if mosfet is working it will operate in the astable multivibrator circuit causing the led to flash here is the circuit diagram

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web follow the below steps to conduct the diode test 1 for this test set the multimeter in the diode mode 2 for n channel mosfet connect the red probe positive to the source and black one at the drain common the body diode is in forward bias condition this way

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