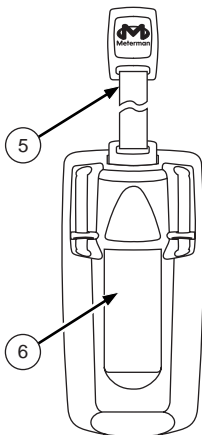
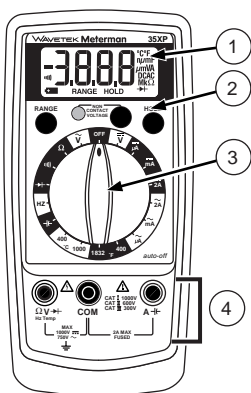


Compact Digital Multimeter

Users Manual

- Manual de uso
- Mode d'emploi
- Bedienungshandbuch
- Manuale d'Uso



1. Display

Afficheur
Anzeige
Display
Pantalla

2. Feature Buttons

Boutons de fonctions
Funktionstasten
Pulsanti delle funzioni
Botones de función

3. Function/Range Switch

Commutateur de gamme/fonction
Funktion/Bereich-Schalter
Selettore funzione/portata
Selector de la función y del rango

4. Test Lead Connections

Branchements des cordons de test
Messleitungsanschlüsse
Boccole per i cavetti
Conexiones de los conductores de prueba

5. Strap Clip

Clip de bretelle
Klemme
Clip in velcro
Clip para correa

6. Battery/Fuse Cover

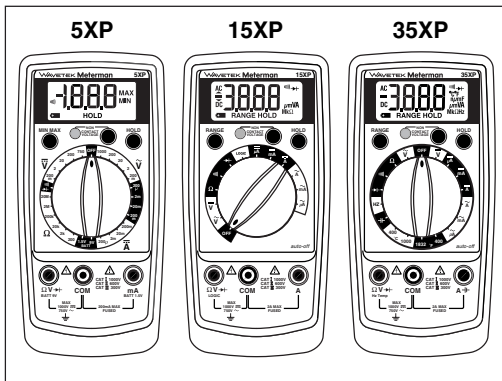
Capot des fusibles/pile
Batterie-/Sicherungsabdeckung
Sportello del vano portapile/fusibili
Puerta de la batería y el fusible

35XP

XP Series Digital Multimeters

Contents













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Safety Information

- The XP Series Digital Multimeters conform to EN61010-1, Rev-2; CAT I 1000 V, CAT II 600 V, CAT III 300 V, class 2 and pollution deg.2; CSA 22.2 -1010-1. It is recommended for use with local level power distribution, appliances, portable equipment, etc., where only smaller transient overvoltages may occur, and not for primary supply lines, overhead lines, and cable systems.
- Do not exceed the maximum overload limits per function (see specifications) nor the limits marked on the instrument itself. Never apply more than 1000 V dc/750 V ac rms between the test lead and earth ground.
- Inspect the DMM, test leads and accessories before every use. Do not use any damaged part.
- Never ground yourself when taking measurements. Do not touch exposed circuit elements or test probe tips.
- Do not operate the instrument in an explosive atmosphere.
- Exercise extreme caution when: measuring voltage >20 V // current >10 mA // AC power line with inductive loads // AC power line during electrical storms // current, when the fuse blows in a circuit with open circuit voltage >1000 V // servicing CRT equipment.
- Always measure current in series with the load – NEVER ACROSS a voltage source. Check fuse first. Never replace a fuse with one of a different rating.
- Remove test leads before opening the case.

Symbols Used in this Manual

	Battery		Refer to the manual
	Double insulated		Dangerous Voltage
	Direct Current		Earth Ground
	Alternating Current		Audible tone
	Fuse		Canadian Standards Association
	Complies with EU directives		Non-contact Voltage

Making Measurements

Verify Instrument Operation

Before attempting to make a measurement, verify that the instrument is operational and the battery is good. If the instrument is not operational, have it repaired before attempting to make a measurement.

Range Selection

In addition to autoranging (Models 15XP and 35XP only) you can manually select and lock a range by pressing the **RANGE** button. **RANGE** appears on the display to indicate that manual ranging is active and the range is locked. When appropriate, each subsequent press of the range button steps the meter to the next higher range. When the highest range is reached the next press returns the meter to the lowest range. To return to autoranging press the **RANGE** button. If **RANGE** still shows on the display, autoranging is not available for the selected function. Use autorange for all initial measurements. Then, when appropriate, use the **RANGE** button to select and lock a range.


Warning

To avoid electrical shock while manual ranging, use the display annunciators to identify the actual range selected.

Correcting an Overload (ΩL or $-\Omega L$) Indication

An ΩL or $-\Omega L$ indication may appear on the display to indicate that an overload condition exists. For voltage and current measurements, an overload should be immediately corrected by selecting a higher range. If the highest range setting does not eliminate the overload, interrupt the measurement until the problem is identified and eliminated. The ΩL indication is normal for some functions; for example, resistance, continuity, and diode test.

Measuring DC Voltage

See Figure -1-

1. Set the Function Switch to \bar{v} .
2. Select the desired **RANGE** (5XP only).
3. Connect the test leads: Red to $V\Omega \rightarrow$, Black to **COM**.
4. Connect the test probes to the circuit test points.
5. Read the display, and, if necessary, correct any overload (ΩL) conditions.

Measuring AC Voltage

See Figure -2-

1. Set the Function Switch to \tilde{V} .
2. Select the desired **RANGE** (5XP only).
3. Connect the test leads: Red to **V Ω \rightarrow +**, Black to **COM**.
4. Connect the test probes to the circuit test points.
5. Read the display, and, if necessary, correct any overload (Ω) conditions.

Preparing for Current Measurements

- Turn off circuit power before connecting the test probes.
- Allow the meter to cool between measurements, if current measurements approach or exceeds 2 amps.
- A warning tone sounds if you connect a test lead to a current input while a current function is not selected.
- Open circuit voltage at the measurement point must not exceed 1000 V.
- Always measure current in series with the load. Never measure current across a voltage source.

Measuring DC Current

See Figure -3-

1. Set the Function Switch to a current function, **μ A**, **mA**, or **A**.
2. Select the desired **RANGE** (5XP only).
3. Connect the test leads: Red to **mA** or **A**, Black to **COM**.
4. Turn off power to the circuit being measured.
5. Open the test circuit (**\rightarrow X \leftarrow**) to establish measurement points.
6. Connect the test probes in series with the load (to the measurement points).
7. Turn on power to the circuit being measured.
8. Read the display, and, if necessary, correct any overload (Ω or $-\Omega$) conditions.

Measuring AC Current

See Figure -4-

1. Set the Function Switch to a current function and range, **μ A**, **mA**, or **A**.
2. Select the desired **RANGE** (5XP only).
3. Connect the test leads: Red to **mA** or **A**, Black to **COM**.
4. Turn off power to the circuit being measured.
5. Open the test circuit (**\rightarrow X \leftarrow**) to establish measurement points.
6. Connect the test probes in series with the load (to the measurement points).
7. Turn on power to the circuit being measured.
8. Read the display, and, if necessary, correct any overload (Ω) conditions.

Measuring Resistance

See Figure -5-

1. Set the Function Switch to Ω .
2. Select the desired **RANGE** (5XP only).
3. Connect the test leads: Red to $V\Omega \rightarrow$, Black to **COM**.
4. Turn off power to the circuit being measured. Never measure resistance across a voltage source or on a powered circuit.
5. Discharge any capacitors that may influence the reading.
6. Connect the test probes across the resistance.
7. Read the display. If Ω appears on the highest range, the resistance is too large to be measured or the circuit is an open circuit.

Testing for Continuity

See Figure -6-

1. Set the Function Switch to))) .
2. Connect the test leads: Red to $V\Omega \rightarrow$, Black to **COM**.
3. Turn off power to the circuit being measured.
4. Discharge any capacitors that may influence the reading.
5. Connect the test probes across the resistance.
6. Listen for the tone that indicates continuity ($< 40 \Omega$).

Testing Diodes

See Figure -7-

1. Set the Function Switch to \rightarrow .
2. Connect the test leads: Red to $V\Omega \rightarrow$, Black to **COM**.
3. Turn off power to the circuit being measured.
4. Free at least one end of the diode from the circuit.
5. Connect the test probes across the diode.
6. Read the display. A good diode has a forward voltage drop of about 0.6 V. An open or reverse biased diode will read Ω .

Measuring Capacitance (35XP only)

See Figure -8-

1. Set the Function Switch to the \rightarrow function.
2. Connect the test leads: Red to mA , Black to **COM**.
4. Turn off power to the circuit being measured.
5. Discharge the capacitor using a 100 k Ω resistor.
6. Free at least one end of the capacitor from the circuit.
7. Connect the test probes across the capacitor.
8. Read the display.

Measuring Temperature (35XP only) See Figure -9-

1. Set the function Switch to appropriate °C or °F range.
2. Connect the K-type thermocouple to a TEMP adapter (XR-TA).
Match the polarity of the adapter to the polarity of the thermocouple.
3. Connect the TEMP adapter to the **V Ω →** and **COM** inputs.

Note: The 35XP is compatible with all K-type thermocouples. The K-type bead thermocouple supplied with the meter is not intended for contact with liquids or electrical circuits.

4. Expose the thermocouple to the temperature to be measured.
5. Read the display.

Measuring Frequency (35XP only) See Figure -10-

1. Set the Function Switch to **Hz**.
2. Connect the test leads: Red to **Hz**, Black to **COM**.
3. Connect the test probes to the signal source.
4. Read the display.

Measuring NCV (Non-Contact Voltage) See Figure -11-

1. Range switch may be set to **OFF** or any function/range.
2. Test leads are not used for the NCV test.
3. Press the **NCV** button. The display goes blank, a tone sounds and the green **LED** next to the **NCV** button on the front panel lights up to verify that the instrument is operational. While pressing the button, hold the top-center of the meter (Ⓢ) (sensor location) close to the conductor/circuit in question.
4. If a voltage in the range of 70 to 600 V ac is present, a tone sounds and the green LED next to the **NCV** button on the front panel lights up.

Testing Battery Voltage (5XP only) See Figure -12-

1. Set the Function Switch to the appropriate **BATT** setting, **1.5V** or **9V**.
2. Connect the test leads: Red to **BATT 1.5V** or **BATT 9V**, Black to **COM**.
3. Connect the test probes across the battery. The meter applies an appropriate load to the battery.
4. Read the display. A good 1.5 volt battery should measure >1.2 V, and a good 9 volt battery should measure > 7.2 V.

Testing Logic Levels (15XP only)

See Figure -13-

The 15XP tests logic levels for TTL logic. The meter displays 0L plus a \wedge for a high-level (true) condition. The meter beeps and displays an 0L and a \vee for a low-level (false) condition. See *Specifications* for the logic 1 and logic 0 voltage limits. Out-of-limits indications are displayed as 0L only, no \wedge , \vee or beep occur.

1. Set the Function Switch to **LOGIC**.
2. Connect the test leads: Red to **V Ω \rightarrow** , Black to **COM**.
3. Connect the black lead to logic common.
4. Connect the red lead to the logic test point.
5. Read the display.

Additional Features

Input Test Lead Warning

The meter emits a continuous tone when a test lead is placed in the **mA** or **A** input jack and the Function/Range Switch is not set to a correct current position. (If the meter is connected to a voltage source with leads connected for current, very high current could result). All current ranges are protected by fast acting fuses.

MIN MAX Measurements (Model 5XP only)

The MIN MAX feature reads and updates the display to show the maximum, minimum, or average value measured after you press the **MIN MAX** button.

Pressing the **MIN MAX** button for less than 1 second will put the meter into a mode of displaying the maximum or minimum readings. Each time the button is pressed, the meter will cycle to the next display mode. Press the **MIN MAX** button for more than 1 second to disable this feature.

Auto Power Off (Models 15XP and 35XP only)

Auto Power Off is a battery saving feature that puts the meter into a sleep mode if the Function/Range Switch has not changed position in the last 6 minutes (15XP) or 10 minutes (35XP). To wake the meter turn the Function/Range Switch to another position.

The Auto Power Off feature can be disabled to keep the meter from going to sleep. To disable the Auto Power Off feature use the following procedure:

1. Set the Function Switch to **OFF**.
2. Press and hold the **Range** button while turning the Function Switch from **OFF** to the desired function.
3. Release the **Range** button. The Auto Power Off feature will remain disabled until the meter is turned off and then on.

HOLD Measurements

The **HOLD** button causes the meter to capture and continuously display a measurement reading. To use the **HOLD** feature make a measurement, and then, after the reading has stabilized, momentarily press the **HOLD** button. You can remove the test leads and the reading will remain on the display. Pressing the **HOLD** button again releases the display.


Product Maintenance

Cleaning


To clean the meter, use a soft cloth moistened with water. To avoid damage to the plastic components do not use benzene, alcohol, acetone, ether, paint thinner, lacquer thinner, ketone or other solvents to clean the meter.

Troubleshooting

If the meter appears to operate improperly, check the following items first.

1. Review the operating instructions to ensure the meter is being used properly.
2. Inspect and test the continuity of the test leads.
3. Make sure the battery is in good condition. The low battery symbol  appears when the battery falls below the level where accuracy is guaranteed. Replace a low-battery immediately.
4. Check the condition of the fuses if the current ranges operate incorrectly.

Battery and Fuse Replacement

See Figure 

WARNING

To avoid electrical, shock remove the test leads from both the meter and the test circuit before accessing the battery or the fuses.

To replace the fuse:

1. Remove the 2 rear-case screws.
2. Separate the case.
3. Remove and replace the 2 A fuse (15XP or 35XP) or 0.315 fuse (5XP).
4. Reassemble the meter.

Fuse:

Fast Blow 2 A/1000 V, minimum interrupt rating 30 kA (6 x 32 mm)
(Meterman FP200).

Fast Blow 0.315 A/1000V minimum interrupt rating 30 kA (6.3 x 32 mm)
(Meterman FP300)

WARRANTY

The XP Series of Digital Multimeters are warranted against any defects of material or workmanship within a period of one (1) year following the date of purchase of the multimeter by the original purchaser or original user. Any multimeter claimed to be defective during the warranty period should be returned with proof of purchase to an authorized Meterman Test Tools Service Center or to the local Meterman Test Tools dealer or distributor where your multimeter was purchased. See Repair section for details. Any implied warranties arising out of the sale of a Meterman Test Tools multimeter, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the above stated one (1) year period. Meterman Test Tools shall not be liable for loss of use of the multimeter or other incidental or consequential damages, expenses, or economical loss or for any claim or claims for such damage, expenses or economical loss. Some states do not allow limitations on how long implied warranties last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Repair

All test tools returned for warranty or non-warranty repair or for calibration should be accompanied by the following: your name, company's name, address, telephone number, and proof of purchase. Additionally, please include a brief description of the problem or the service requested and include the test leads with the meter. Non-warranty repair or replacement charges should be remitted in the form of a check, a money order, credit card with expiration date, or a purchase order made payable to Meterman Test Tools.

In-Warranty Repairs and Replacement – All Countries

Please read the warranty statement that follows, and check your batteries and fuses before requesting repair. During the warranty period any defective test tool can be returned to your Meterman Test Tools distributor for an exchange for the same or like product. Please check the "Where to Buy" section on www.metermantesttools.com for a list of distributors near you. Additionally, in the United States and Canada In-Warranty repair and replacement units can also be sent to a Meterman Test Tools Service Center (see below for address).

Non-Warranty Repairs and Replacement – US and Canada

Non-warranty repairs in the United States and Canada should be sent to a Meterman Test Tools Service Center. Call Meterman Test Tools or inquire at your point of purchase for current repair and replacement rates.

In USA

Meterman Test Tools
1420 75th Street SW
Everett, WA 98203
Tel: 800-993-5853
Fax: 425-446-6390

In Canada

Meterman Test Tools
400 Britannia Rd. E. Unit #1
Mississauga, ON L4Z 1X9
Tel: 905-890-7600
Fax: 905-890-6866

Non-Warranty Repairs and Replacement – Europe

European non-warranty units can be replaced by your Meterman Test Tools distributor for a nominal charge. Please check the "Where to Buy" section on www.metermantesttools.com for a list of distributors near you.

European Correspondence Address*

Meterman Test Tools Europe
P.O. Box 1186
5602 BD Eindhoven
The Netherlands

*(Correspondence only – no repair or replacement available from this address. European customers please contact your distributor.)

Specifications


Display:

5XP and 15XP: 3 ½ digit liquid crystal display (LCD) with a maximum reading of 1999.

35XP: 3 ¾ digit liquid crystal display (LCD) with a maximum reading of 3999.

Polarity: Automatic, positive implied, negative polarity indication.

Overrange: 0L or -0L is displayed.

Low battery indication: The  symbol is displayed when the battery voltage drops below the operating level.

Operating environment: 0 °C to 50 °C at <70 % R.H.

Power: Single standard 9 V battery, NEDA 1604, JIS 006P, IEC 6F22.

Dimensions: 155 mm (H) x72 mm (W) x32 mm (D)

Weight: Approximately 210 g including battery.

Overload protection: 1000 V dc or 750 V ac

Accessories: One pair test leads TL245, 9 V battery (installed), holster, magnet strap, Users Manual.

Altitude: 6561.7 Feet (2000 M)



Safety: Conforms to EN61010-1, Rev-2; CAT I 1000V, CAT II 600V, CAT III 300V, class 2 and pollution deg.2; CSA 22.2 -1010-1.

EMC: Conforms to EN61326-1. This product complies with requirements of the following European Community Directives: 89/ 336/ EEC (Electromagnetic Compatibility) and 73/ 23/ EEC (Low Voltage) as amended by 93/ 68/ EEC (CE Marking). However, electrical noise or intense electromagnetic fields in the vicinity of the equipment may disturb the measurement circuit. Measuring instruments will also respond to unwanted signals that may be present within the measurement circuit. Users should exercise care and take appropriate precautions to avoid misleading results when making measurements in the presence of electronic interference.

Replacement Parts

TL36	Test Lead Set
TL245	Test Lead Set
FP200	Fuse – 2 A / 1000 V (15XP and 35XP)
FP300	Fuse – 0.315A / 1000V (5XP)
H2-XR	Magne-Grip® Holster, clip, magnet, and strap
XR-TA	Input Adapter for K-type thermocouple
TP255	K type thermocouple

See www.metermantesttools.com for detailed specifications of the Meterman XP digital multimeters.

5XP Electrical Specifications

(at 23°C ± 5°C, < 75% R.H.)

DC VOLTS

Ranges: 200 mV, 2 V, 20 V, 200 V, 1000 V

Accuracy: ± (1.0% rdg + 1 dgt)

AC VOLTS (45 Hz to 500 Hz)

Ranges: 200 mV, 2V, 20 V, 200 V, 750 V

Accuracy: ± (1.5% rdg + 5 dgts)

DC CURRENT

Ranges: 200 µA, 2 mA, 20 mA, 200 mA,

± (1.5% rdg + 1 dgt)

AC CURRENT (45 Hz to 500 Hz)

Ranges: 200 µA, 2 mA, 20 mA, 200 mA,

± (2.0% rdg + 5 dgts)

RESISTANCE

Ranges: 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ,

2 MΩ, 20 MΩ

Accuracy: ± (1.0% rdg + 4 dgts) on 200 to

200 kΩ ranges ± (1.5% rdg + 4 dgts) on

2 MΩ range ± (3.0% rdg + 5 dgts) on

20 MΩ range

CONTINUITY

Audible indication: 75 ± 25 Ω

DIODE TEST

Test current: 1.0 mA (approximate)

Accuracy: ± (1.5% rdg + 3 dgts)

Open circuit volts: 3.0 dc typical

BATTERY TEST

Ranges: 1.5 V, 9 V

Accuracy: \pm (3.5% rdg + 2 dgts)

NON-CONTACT VOLTAGE INDICATOR

Sense voltage 70 V to 600 VAC (50 Hz to 60 Hz) beeper chirps and bright green LED comes on, works when meter dial is on any range.

OVERLOAD PROTECTION:

Voltage, Resistance, Diode, Continuity:
1000 VDC or 750 VAC rms

200 mV Range: 1000 VDC / 750 VAC rms
(3 minutes)

Current: 0.315 A / 1000 V fast blow ceramic fuse 6.3 \times 32 mm

mA JACK: Input warning detects wrong switch/input jack configuration

AUXILIARY FEATURES

DATA HOLD: Freeze the latest reading on the display.

MIN/MAX: Record the maximum and minimum reading in a measurement.

15XP Electrical Specifications

(at 23°C \pm 5°C, < 75% R.H.)

DC VOLTS

Ranges: 200 mV, 2 V, 20 V, 200 V, 1000 V

Accuracy: \pm (0.5% rdg + 1 dgt)

AC VOLTS (45 Hz to 500 Hz)

Ranges: 200 mV, 2 V, 20 V, 200 V, 750 V

Accuracy: \pm (1.5% rdg + 5 dgts) 45 Hz to 100 Hz on 200 mV range \pm (1.5% rdg + 5 dgts) on 2 V to 750 V ranges

DC CURRENT

Ranges: 200 μ A, 2000 μ A, 20 mA, 200 mA, 2 A

Accuracy: \pm (1.0% rdg + 2 dgts) on 200 μ A to 200 mA ranges \pm (2.0% rdg + 3 dgts) on 2 A range

AC CURRENT (45 Hz to 500 Hz)

Ranges: 200 μ A, 2000 μ A, 20 mA, 200 mA, 2 A

Accuracy: \pm (1.5% rdg + 5 dgts) on 200 μ A to 200 mA ranges \pm (2.5% rdg + 5 dgts) on 2 A range

RESISTANCE

Ranges: 200 Ω , 2 k Ω , 20 k Ω , 200 k Ω , 2 M Ω , 20 M Ω

Accuracy: \pm (1.0% rdg + 4 dgts) on 200 to 2 M Ω ranges \pm (3.0% rdg + 5 dgts) on 20 M Ω range

CONTINUITY

Audible indication: Less than 25 Ω

DIODE TEST

Test current: 1.2 mA (approximate)

Accuracy: \pm (1.5% rdg + 3 dgts)

Open circuit volts: 3.0 dc typical

LOGIC TEST

Thresholds Logic 1 (Hi): 2.8 V \pm 0.8 V

Thresholds Logic 0 (Lo): 0.8 V \pm 0.5 V

Test voltage: TTL 5 VDC

NON-CONTACT VOLTAGE INDICATOR

Sense voltage 70 V to 600 VAC (50 Hz to 60 Hz) beeper chirps and bright green LED comes on, works when meter dial is on any range.

OVERLOAD PROTECTION:

Voltage, Resistance, Diode, Continuity, Logic: 1000 VDC or 750 VAC rms

Current: 2 A / 1000 V fast blow ceramic fuse 6.3 \times 32 mm

A JACK: Input warning detects wrong switch / input jack configuration

AUXILIARY FEATURES

DATA HOLD: Freeze the latest reading on the display.

RANGE: Execute manual range mode.

AUTO Power off: After auto power off, press (RANGE) button to restart the meter, and the last reading of measurement will be returned to the display.

35XP Electrical Specifications

(at 23°C ± 5°C, < 75% R.H.)

DC VOLTS

Ranges: 400 mV, 4 V, 40 V, 400 V, 1000 V

Accuracy: ± (0.5% rdg + 1 dgt)

AC VOLTS (45 Hz to 500 Hz)

Ranges: 400 mV, 4 V, 40 V, 400 V, 750 V

Accuracy: ± (1.5% rdg + 5 dgts) 45 Hz to 100 Hz on 400 mV range ± (1.5% rdg + 5 dgts) on 4 V to 750 V ranges

DC CURRENT

Ranges: 400 µA, 4000 µA, 40 mA, 400 mA, 2 A

Accuracy: ± (1.0% rdg + 2 dgts) on 400 µA to 400 mA ranges ± (2.0% rdg + 3 dgts) on 2 A range

AC CURRENT (45 Hz to 500 Hz)

Ranges: 400 µA, 4000 µA, 40 mA, 400 mA, 2 A

Accuracy: ± (1.5% rdg + 5 dgts) on 400 µA to 400 mA ranges ± (2.5% rdg + 5 dgts) on 2 A range

RESISTANCE

Ranges: 400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ, 40 MΩ

Accuracy: ± (1.0% rdg + 4 dgts) on 400 to 4 MΩ ranges ± (3.0% rdg + 5 dgts) on 40 MΩ range

CONTINUITY

Audible indication: Less than 25 Ω

DIODE TEST

Test current: 1.2 mA (approximate)

Accuracy: ±(1.5% rdg + 3 dgts)

Open circuit volts: 3.0 dc typical

CAPACITANCE

Ranges: 4 nF, 40 nF, 400 nF, 4 µF, 40 µF, 400 µF, 4 mF

Accuracy: ± (5.0% rdg + 30 dgts) on 4 nF ranges ± (5.0% rdg + 5 dgts) on 40 nF and 400 µF ranges ± (5.0% rdg + 15 dgts) on 4 mF range

TEMPERATURE

Ranges: -20°C to 1000°C, -4°F to 1832°F

Accuracy: ± (2.0% rdg + 4°C) -20°C to 10°C

± (1.0% rdg + 3°C) 10°C to 200°C

± (3.0% rdg + 2°C) 200°C to 1000°C

± (2.0% rdg + 8°F) -4°F to 50°F

± (1.0% rdg + 6°F) 50°F to 400°F

± (3.0% rdg + 4°F) 400°F to 1832°F

FREQUENCY

Ranges: 4 k, 40 k, 400 k, 4 M, 20 MHz

Accuracy: ± (0.1% rdg + 3 dgts)

Sensitivity:

10 Hz to 4 MHz: >1.5V rms; 4 MHz to

20 MHz: >2 V rms, <5 V rms

NON-CONTACT VOLTAGE INDICATOR

Sense voltage 70 V to 600 VAC (50 Hz to 60 Hz) beeper chirps and bright green LED comes on, works when meter dial is on any range.

OVERLOAD PROTECTION:

Voltage, Resistance, Diode, Continuity, Frequency, Temperature: 1000 VDC or 750 VAC rms

Current, Capacitance: 2 A / 1000 V fast blow ceramic fuse 6.3 × 32 mm

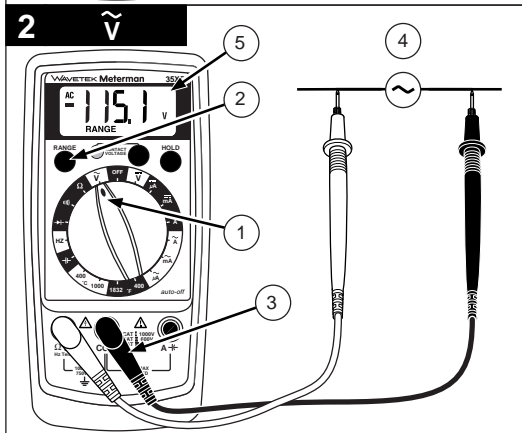
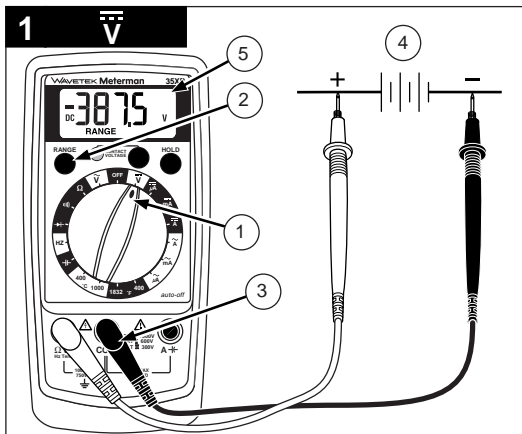
A JACK: Input warning detects wrong switch/input jack configuration

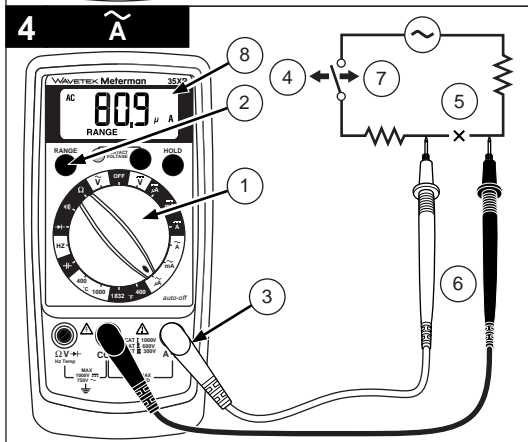
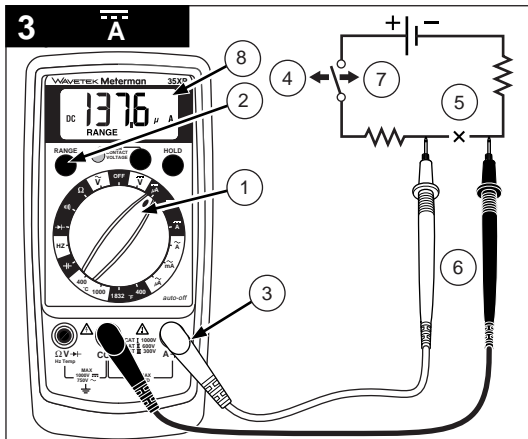
AUXILIARY FEATURES

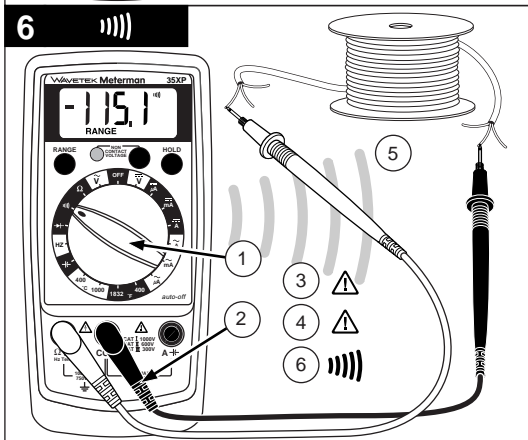
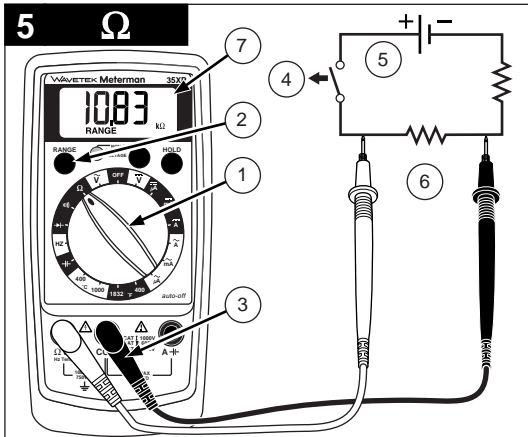
DATA HOLD: Freeze the latest reading on the display.

RANGE: Execute manual range mode.

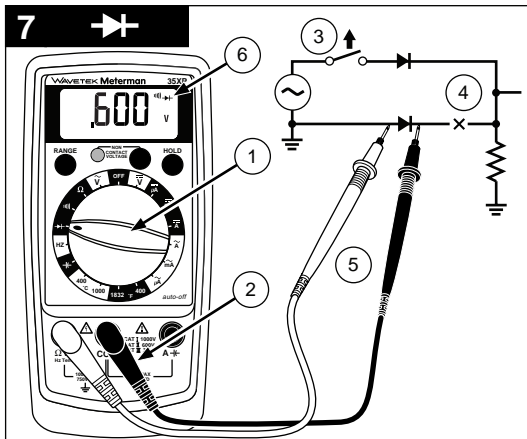
AUTO Power off: After auto power off, press (RANGE) button to restart the meter, and the last reading of measurement will be returned to the display.



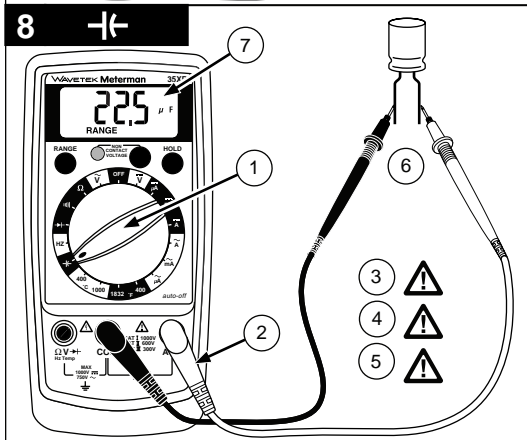




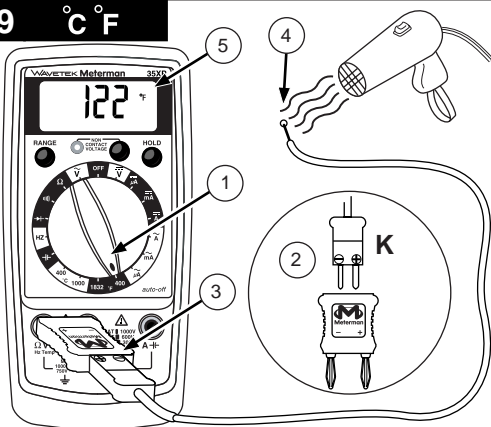
7



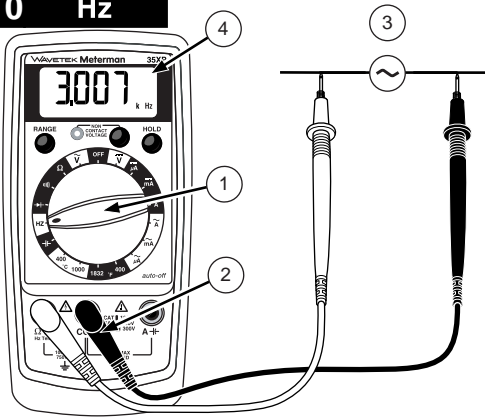
8



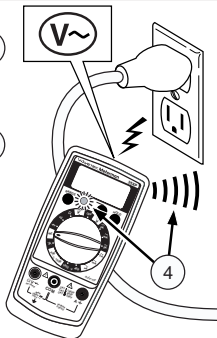
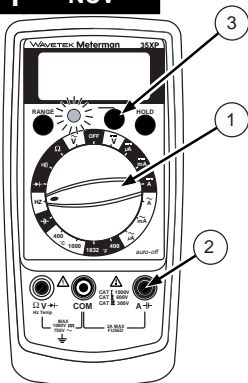
9 °C °F



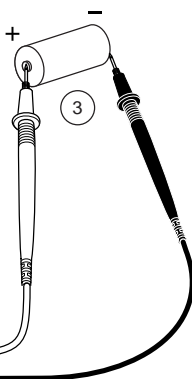
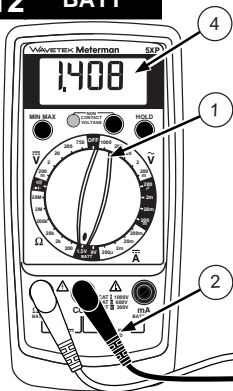
10 Hz



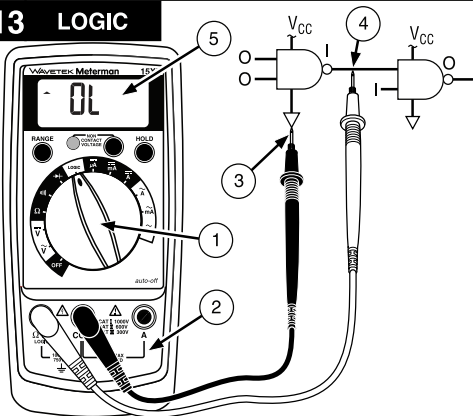
11 NCV



12 BATT

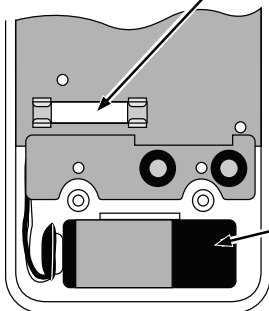


13 LOGIC



14 /

Fast Blow 2 A/1000 V Fuse (15XP/35XP)
0.315A/1000 V Fuse (5XP)



9 V Battery
Pile 9 V
9 V Batterie
Pila de 9 V
Bateria de 9 V



**5XP
15XP
35XP**

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Tel: 888-993-5853
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PN 2095408
October 2003
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