

Introducing the New PM Series The world's smallest full-featured CAT III multimeters

Three NEW multimeters with innovative features in an ultra-compact size.

What's innovative?

- **Simplified interface** with easy one-touch button control, oversize digital display screens.
- **Progressive design** with two remarkable features called VolTect™ and AutoTect™. VolTect™ feature is a built-in ac voltage detector. AutoTect™ feature is a function that automatically selects the meter to display between ac volts, dc volts or resistance, depending upon what the meter senses at the probe tips.
- Compact size offers a meter that is only 3/8 inch (.95 cm) thick and weighs less than 3 ounces (85 g).
- Safety standards designed in each meter to meet CAT III safety standards and are UL certified.



AutoTect™ feature, automatically measures ac volts, dc volts and resistance

PM55

Automatic Precision Pocket Multimeter

This unique meter has a full complement of features and offers the utmost in shirt pocket portability. The PM55 is fully autoranging with an oversized, easy-to-read digital display.

- AutoTect™ feature detects and displays ac volts, dc volts or resistance
- VolTect™ feature, a built-in ac voltage detector
- Fully safety rated to CAT III and cULus levels
- Extra features of capacitance, frequency and microamp current
- Option of Low Z or Hi Z input impedance
- Transient protected to 4 kV
- Includes protective holster and denier carrying case









PM53

Shirt-Pocket Size Digital Multimeter with AutoTect™

This unique meter is right-sized for portability. Model PM53 is fully autoranging and has a large, easy-toread digital display. It offers the AutoTect™ feature that guides the meter to display ac volts, dc volts or resistance based on what you are measuring. Also offered is VolTect™, a built-in non-contact voltage detector of ac voltages. Although very small, this meter is fully UL safety rated to CAT III levels. The Meterman PM53 includes measurement extras such as capacitance, frequency and continuity

plus safety extras such as transient

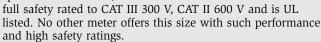
- protection to 4 kV and overload protection to 450 V. • Non-contact ac voltage detection, VolTect™ feature
- Automatic mode selection between ac volts, dc volts and resistance, AutoTect™ feature
- Frequency measurements to 30 kHz
- Capacitance range to 2000 μF
- Low Z input impedance eliminates ghost voltage readings
- Includes protective holster

Optional accessories

Deluxe carrying case, VC3

PM51 **Pocket Size Multimeter** w/Frequency and Capacitance

The PM51 meter is a shirt-pocket size meter only 2 inches (5.1 cm) wide and weighing less than 3 oz. (85 g) With a full functionality offering ac and dc voltage to 600 V, resistance to 40 M Ω , capacitance to 300 μ F, frequency to 1 MHz, continuity with beeper, and diode test. Fully autoranging, the PM51 offers seven different measurement functions with 27 full ranges of measurement. The digital display is oversized with large digits and icons in the display. In spite of its small size, the PM51 is



- Frequency measurements to 1 MHz
- Capacitance range to 3000 µF
- ullet Resistance to 40 M Ω
- Continuity and Diode Test

Optional accessories

Deluxe carrying case, VC3 Protective silicone holster, H-PM

PM series user selection guide

PM51

| | | 11133 | 11133 |
|---|----------|----------|-------------|
| Facilities & Building Maintenance | > | > | _ |
| Electronics Technicians & Engineers | ı | - | ✓ |
| Field Service Technician | ı | _ | 1 |
| Residential/ Commercial Electrician | ı | \ | ✓ |
| Industrial Electrician | ı | | / |
| HVAC Technician | ı | _ | 1 |
| Plant Maintenance | ı | _ | / |
| Engineering Students | > | | / |
| Automotive Technician | > | ✓ | _ |
| Hobbyist | \ | ✓ | _ |
| Homeowner | \ | √ | _ |
| Computer Technician | | ✓ | 1 |
| Medical Equipment Technician | 1 | | > |
| Aircraft Service Technicians | _ | _ | / |

Pick the multimeter that is right for you.

| | PM51 | PM53 | PM55 |
|---------------------------|--------------|--------------|--------------|
| | F1/15 I | ri/JJ | FINDS |
| Fully Autoranging | Yes | Yes | Yes |
| Large LCD display w/icons | 4000 count | 6000 count | 6000 count |
| Basic Accuracy | 1 % | 0.50 % | 0.50 % |
| AC/DC Voltage | 600 V | 450 V | 600 VΩ |
| AutoTect Ohms | _ | 6 MΩ | 6 ΜΩ |
| Non-AutoTect Ohms | 40 MΩ | _ | 600 Ω |
| Continuity with Beeper | Yes | Yes | Yes |
| Diode Test | Yes | No | Yes |
| Capacitance | 3000 μF | 100 μF | 2000 uF |
| Frequency | 1 MHz | 10 kHz | 30 kHz |
| μAmps AC/DC Current | l | ı | 2000 uA |
| AutoTect™ | | Yes | Yes |
| Voltect™ | | Yes | Yes |
| Safety Ratings | CAT II 600 V | CAT II 450 V | CAT II 600 V |
| | CAT III 300V | CAT III 300V | CAT III 300V |
| Safety Approvals | cULus, CE | cULus, CE | cULus, CE |
| Warranty | One-year | One-year | One-year |

UL and EC ratings

UL and EN61010-1 voltage ratings

EN61010-1 category and voltage ratings on multimeter products

International Safety Standards for Digital **Multimeters**

Test equipment must be designed to protect people who work in the high-voltage, high-current environment. In order to prevent injury the International Electrotechnical Commission (IEC) develops international general standards for safety of electrical equipment for measurement, control and laboratory use. The most current standard 61010 specifies overvoltage categories for electrical distribution systems. The Category rating increases based on the closeness to the power source and a higher level of user protection is required from test equipment.

Proposed Energy Regions*

| CAT I | |
|--------------|--|
| Electronics, | |

signal level

CAT II Appliances, portable tools, single-phase receptacle loads

CAT III

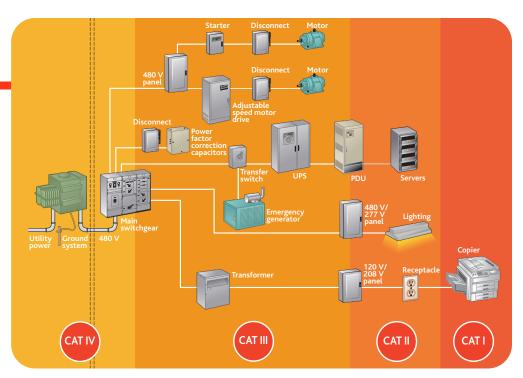
Three-phase distribution, large building lighting systems, electricity distribution panel devices

CAT IV

Three-phase at utility connection, meters, outside and service entrance

Meterman® Test Tools recommends only using test equipment in environments below or up to its Category rating, never in a Category above the instrument's

*Category Ratings per IEC1010-1. Category boundaries may not be



| | UL | U-CSA-C | CAT I | CAT II | CAT III | CAT IV |
|----------|------|---------|-------|--------|---------|--------|
| Multimet | ters | | | | | |

| 30XR | | | | | | | |
|--|-----------|--------|-------|--------|--------|--------|-------|
| 34XR | 30XR | Yes | cULus | | 600 V | 300 V | |
| 37XR | 33XR | Yes | cULus | | | 600 V | |
| 38XR | 34XR | Yes | cULus | | 1000 V | 600 V | |
| 5XP Yes 1000 V 600 V 300 V 15XP Yes 1000 V 600 V 300 V 35XP Yes 1000 V 600 V 300 V AM8 300 V 600 V 300 V DM7 600 V 300 V 500 V DM78A Yes 600 V 300 V DM9 600 V 1000 V HD110B 1000 V 1000 V HD160B 1000 V 1000 V PM51 cULus 600 V 300 V PM53 cULus 600 V 300 V PM55 cULus 600 V 300 V Electrical ECB50 Yes 150 V EPM3 Yes 600 V 300 V Clamp Meters AC40A 600 V 300 V AC65 600 V 300 V 400 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD40A 600 V 600 V <th>37XR</th> <th>Yes</th> <th>Yes</th> <th></th> <th>1000 V</th> <th>600 V</th> <th></th> | 37XR | Yes | Yes | | 1000 V | 600 V | |
| 15XP | 38XR | Yes | Yes | | | 1000 V | 600 V |
| 35XP | 5XP | | Yes | 1000 V | 600 V | 300 V | |
| AM8 | 15XP | | Yes | 1000 V | | 300 V | |
| DM7 | 35XP | | Yes | 1000 V | 600 V | 300 V | |
| DM73B | AM8 | | | | | | |
| DM78A Yes | DM7 | | | | | | |
| DM9 | DM73B | Yes | | | | 300 V | |
| HD110B | DM78A | Yes | | 600 V | 300 V | | |
| HD115B | DM9 | | | | 600 V | | |
| HD160B | HD110B | | | | | 1000 V | |
| PM51 cULus 600 V 300 V PM53 cULus 450 V 300 V PM55 cULus 600 V 300 V Electrical ECB50 Yes 150 V EPM3 Yes 600 V Clamp Meters AC40A 600 V 300 V AC65 600 V 300 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD40A 600 V CT231A 600 V CT235 300 V CT238 300 V Bench Top Meter | HD115B | | | | | 1000 V | |
| PM53 cULus 450 V 300 V PM55 cULus 600 V 300 V Electrical ECB50 Yes 150 V EPM3 Yes 600 V Clamp Meters AC40A 600 V AC65 600 V 300 V AC68 Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | | | | | | | |
| PM55 cULus 600 V 300 V Electrical ECB50 Yes 150 V EPM3 Yes 600 V Clamp Meters AC40A 600 V AC65 600 V 300 V AC68 Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 CT237 300 V CT238 Bench Top Meter | PM51 | | cULus | | | 300 V | |
| Electrical ECB50 Yes 150 V EPM3 Yes 600 V Clamp Meters AC40A 600 V AC65 AC65 600 V 300 V AC68 Yes 600 V AC71 Yes 1000 V 600 V AC75 AD105 V AD40A 600 V AD40A AC75 AD40A AC75 AD40A AC75 AD40A AC75 | PM53 | | cULus | | 450 V | 300 V | |
| ECB50 Yes 150 V EPM3 Yes 600 V Clamp Meters AC40A 600 V AC65 600 V 300 V AC68 Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | PM55 | | cULus | | 600 V | 300 V | |
| EPM3 Yes 600 V Clamp Meters AC40A 600 V AC65 600 V 300 V AC68 Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | Electrica | l | | | | | |
| Clamp Meters AC40A 600 V AC65 600 V AC68 Yes AC71 Yes AC75 1000 V AD105 1000 V AD40A 600 V Current Clamps CT231A CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | ECB50 | Yes | | | | 150 V | |
| AC40A 600 V AC65 600 V 300 V AC68 Yes Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 Bench Top Meter G00 V G | EPM3 | | Yes | | | 600 V | |
| AC65 600 V 300 V AC68 Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | Clamp M | leters | | | | | |
| AC68 Yes Yes 600 V AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 CT237 300 V CT238 Bench Top Meter 300 V | AC40A | | | | | 600 V | |
| AC71 Yes 1000 V 600 V AC75 1000 V 600 V AD105 1000 V 600 V AD40A 600 V Current Clamps CT231A 600 V CT235 CT237 300 V CT238 Bench Top Meter 300 V | AC65 | | | | 600 V | 300 V | |
| AC75 | AC68 | Yes | Yes | | | 600 V | |
| AD105 1000 V AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | | | Yes | | 1000 V | | |
| AD40A 600 V Current Clamps CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | | | | | 1000 V | 600 V | |
| Current Clamps 600 V CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter | AD105 | | | | | 1000 V | |
| CT231A 600 V CT235 300 V CT237 300 V CT238 300 V Bench Top Meter 300 V | | | | | | 600 V | |
| CT235 300 V CT237 300 V CT238 300 V Bench Top Meter 300 V | Current | Clamp | S | | | | |
| CT237 300 V CT238 300 V Bench Top Meter | | | | | | 600 V | |
| CT238 300 V Bench Top Meter | | | | | | 300 V | |
| Bench Top Meter | | | | | | 300 V | |
| | CT238 | | | | | 300 V | |
| BDM40 1000 V | Bench To | p Met | er | | | | |
| | BDM40 | | | | | 1000 V | |

All of the products shown in this catalog are CE marked and for sale in the EC except: DM2, TP probes, HD110, HD110T, TL246B.



Quality and service beyond compare

Our products

The products shown in this catalog include an extensive selection of portable multimeters, clamp meters, component checkers, bench meters, HVAC testers and specialty tools such as logic probes and short-finders to meet any application. Also shown is a complete selection of accessories including protective cases, test leads and adapters.

Our distributors

The products shown in this catalog are sold and supported by a worldwide network of Meterman distributors and dealers. Should you require any assistance or have questions about our products or their applications, these local dealers stand ready to serve you.





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No waiting.

No shipping charges.

No hassle warranty

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that a Meterman test tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.





www.metermantesttools.com

Find the distributor closest to you with our "Where to Buy" distributor listing.

Visit our web site for full data sheets with specifications, application notes and special promotions.



Available on all XP Series meters.

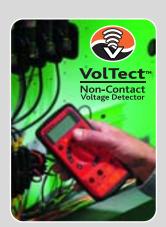
Magne-Grip™ Holster

with magnetic hanging strap frees both hands for work.

Triple safety rating

Protects against line surges and over-voltage conditions.

VolTect™ non-contact voltage detection lets you instantly detect dangerous ac line voltages.



XP Series Compact Multimeters

The XP Series digital multimeters are full-featured, very accurate, and compact in size. Some of the unique features include VolTect™ a built-in non-contact voltage (NCV) detector, temperature measurement, CAT III safety ratings, and our exclusive Magne-Grip™ holster that frees both hands for work. There are three models designed to fit your applications.



Measures temperature. Type K thermocouple included with the 35XP.

(Shown with optional accessories MH101K and TP130K, see page 11)

35XP

A compact, full-featured digital multimeter for plant maintenance, HVAC, electrical and electronics applications.

The 35XP is the right choice for HVAC, plant maintenance technicians and residential electricians.

- Temperature measurement capability to 1000 °C/1832 °F (Type K thermocouple included)
- 750 V ac/1000 V dc highest voltage rating in this class of meter
- Capacitance for motor run/ start test
- 0.1 μA resolution for flame sensor testing
- Frequency to 40 MHz
- \bullet Resistance to 40 $M\Omega$
- Data Hold freezes display

Optional accessories

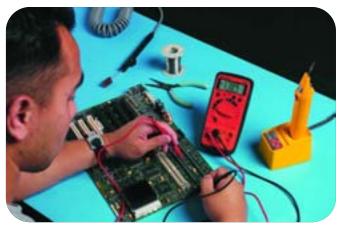
Carrying case, VC30 Test lead kit, DL243C













15XP

A compact digital multimeter for electronics and test applications

The 15XP is the right choice for electronics engineers, technicians and field service.

- Autoranging display for faster measurements
- TTL logic test for digital circuits
- Integrated tilt stand for easy bench use
- Diode test for component level troubleshooting
- Data Hold freezes display to "hold" measurement reading
- 750 V ac/1000 V dc highest voltage rating in this class of meter

Optional accessories

Carrying case, VC30 Test lead kit, DL243C







5XPA compact full-purpose multimeter

The 5XP is the right choice for residential, commercial and general troubleshooting applications.

- 27 ranges/10 functions a complete performance, general purpose digital multimeter
- 750 V ac/ 1000 V dc highest voltage rating in this class of meter
- Battery load test with 1.5 volt and 9 volt capabilities
- Min/Max records minimum and maximum values
- Data Hold freezes display to "hold" measurement reading

Optional accessories

Carrying case, VC30 Test lead kit, DL243C







Pick the multimeter that is right for you.

| | 5XP | 15XP | 35XP | |
|-------------------|--|--|--|--|
| Display | Large digit 2000-count display | Autoranging, large digit 2000-count display | Autoranging, large digit 4000-count display | |
| Basic Accuracy | 1 % | 0.5 % | 0.5 % | |
| AC/DC Volts | 750 V/1000 V | 750 V/1000 V | 750 V/1000 V | |
| AC/DC Current | 200 mA ac/dc | 2 A ac/dc | 2 A ac/dc | |
| Resistance | 20 MΩ | 20 MΩ | 40 MΩ | |
| Continuity Beeper | Yes | Yes | Yes | |
| VolTect™ | 70 V to 600 V ac | 70 V to 600 V ac | 70 V to 600 V ac | |
| Special Features | Data Hold and MIN/MAX 1.5 V, 9 V battery test (with load for accurate reading) | TTL Logic test to 20 MHz 0.1 mV AC/DC voltage resolution 0.1 mA AC/DC current resolution | Temperature to 1000 °C (1832 °F) Type K Probe included Frequency to 40 MHz Capacitance to 4,000 µF Auto Power Off | |
| Warranty | One-vear | One-vear | One-vear | |



See the larger, more feature-rich multimeters the XR Series on pages 8 and 9



Five meters designed for electronic, electrical, plant maintenance and **HVAC** applications



Many DMM users find they need a "third hand" when taking a measurement with their meter. We designed the Magne-Grip™ holster to protect the meter and provide the "third hand" DMM users need. An innovative magnetic hanging strap secures the meter to a convenient steel surface, freeing both hands for work. Included with all XR meters.

XR Series

38XR

True RMS digital multimeter with optical PC interface

- 10,000-count with high 0.25 % accuracy
- Bright blue backlight for dim environments
- Duty cycle, capacitance and frequency
- Magne-Grip™ holster with magnetic hanging strap
- 4-20 mA loop current with % readout
- Temperature to 2372 °F/1300 °C, type K thermocouple included
- True RMS AC + DC coupled for accurate measurements
- RS-232 data out for use with optional software, Model 38-SW

Three-year warranty











37XR

True RMS with component and logic test

True RMS meter for electronics troubleshooting at the bench or job site. The highest accuracy meter in the XR series.

- Autoranging 10,000 count with 0.1 % accuracy for the most accurate measurements
- LCR functions inductance, capacitance and resistance
- Frequency, duty cycle and logic test
- Bright blue backlight for dim environments
- Magne-Grip™ Holster with magnetic hanging strap

Three-year warranty











34XR

True RMS with temperature and backlight

Ideal for contractors and field service technicians.

- True RMS for the most accurate measurements
- Extended 4000 μF capacitance range for motor run/start testing
- Bright blue backlight for dim environments
- Duty cycle, frequency and capacitance for complete measurement capability
- Temperature to 1832 °F/1000 °C with a type K thermocouple included
- Magne-Grip™ Holster with magnetic hanging strap
- Data Hold, Min/Max and bar graph

Three-year warranty













33XR

Manual ranging with temperature and capacitance

33XR gives the contractor and field service technician all the essential measurement functions they need in a rugged package.

- Temperature, frequency and capacitance
- Extended 4000 μF capacitance range for motor run/start testing
- Magne-Grip™ Holster with magnetic hanging strap
- Data Hold, Peak Hold, Min/Max and REL

One-year warranty









30XR

DMM with VolTect™, a built-in non-contact voltage tester

The 30XR has all the basic functions for automotive, residential and education applications.

- 9 functions, 30 ranges handles most measurement needs
- Magne-Grip™ Holster with magnetic hanging strap frees both hands for work
- Battery/fuse door designed for easy accessibility
- · Battery tester

One-year warranty











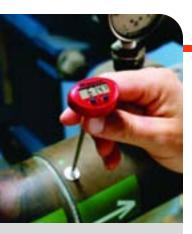
Pick the multimeter that is right for you.

| | 30XR | 33XR | 34XR | 37XR | 38XR |
|----------------------------|--|---|---|--|---|
| Measurement | | | | | |
| Voltage dc | 600 V | 1000 V | 1000 V | 1000 V | 1000 V |
| Voltage ac | 600 V Average | 750 V Average | 750 V TRMS AC | 750 V TRMS AC | 750 V TRMS AC + DC |
| DC current | 10 A | 10 A | 10 A | 10 A | 10 A |
| AC current | 10 A | 10 A | 10 A TRMS | 10 A TRMS | 10 A TRMS |
| Resistance | 20 ΜΩ | 4 ΜΩ | 40 ΜΩ | 40 MΩ | 40 MΩ |
| Continuity | • | • | • | • | • |
| Diode | • | • | • | • | • |
| Non-contact voltage detect | • | | | | |
| Capacitance | | 4000 μF | 4000 μF | 400 μF | 400 μF |
| Frequency | | 40 MHz | 40 MHz | 10 MHz | 10 MHz |
| Temperature | | 1000 °C (1832 °F) | 1000 °C (1832 °F) | | 1300 °C (2372 °F) |
| Duty cycle | | | • | • | • |
| Logic test | | | | TTL/CMOS 20 MHz | |
| Inductance | | | | 40 H | |
| Battery test | 1.5 V, 9 V | | | | |
| Features | | | | | |
| Basic dc accuracy | 1.0 % | 0.7 % | 0.5 % | 0.1 % | 0.25 % |
| Counts | 2000 | 4000 | 4000 | 10,000 | 10,000 |
| Auto power off | | • | • | • | • |
| Analog bar graph | | • | • | • | • |
| Backlight | | | • | • | • |
| Min/Max | • | • | • | • | • |
| Average | | | | • | • |
| Relative | | • | | • | • |
| Data Hold | • | • | • | • | • |
| Peak Hold | | • | | • | • |
| 4-20 mA % | | | | | • |
| RS-232 output | | | | | • |
| dBm | | | | • | • |
| Ships with | Magne-Grip holster, test leads, battery | Magne-Grip holster, test leads, alligator clips, Type K probe, temp adapter, battery | Magne-Grip holster, test leads, alligator clips, Type K probe, temp adapter, battery | Magne-Grip holster, test leads, alligator clips, battery | Magne-Grip holster, test leads, alligator clips, Type K probe, temp adapter, battery |
| Warranty | One-year | One-year | Three-years | Three-years | Three-years |

Optional RS232 cable and software, 38-SW

- Real-time data acquisition software logs and displays data from all 38XR measurement functions
- Stores data for retrieval or for further analysis
- Exports data for use in Excel® or other programs
- Supports Windows® 98, NT, XP and their variants

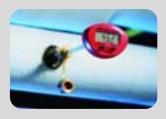




TPP2-F/TPP2-C

Surface probe pocket thermometers with flat surface contact

- Fahrenheit and Celsius versions
- \bullet 0.1 °F / 0.1 °C resolution
- Easy-to-read digital display
- Data hold to freeze display
- Long battery life, 200 hours typical
- Temperature ranges -50 °F to 480 °F (-50 °C to 250 °C)



TPP1-F/TPP1-C

Same features as TPP2 but with an immersion probe tip

Protective probe sleeve with pocket clip

TM-SW

Optional RS232 cable and software for TMA10 and TMD90

- Record two channels simultaneously
 - T1 and T2 with TMD90
 - Air flow and temperature with TMA10
- Store results for further analysis



TMD90

Dual input digital thermometer with triple display

- High accuracy, multiple type input thermometer
- Ideal for HVAC/R technicians, electricians, research, industrial process, quality control
- Dual inputs for easy super-heat and sub-cool temperature measurements
- Dual channel real time data acquisition with RS232 output with optional software and cable, Model TM-SW
- Triple display of T1, T2, T1 T2, and relative time stamp
- Backlight
- Deluxe hard carrying case, two Type K probes

| Thermocouple | Temperature Ranges | Accuracy | |
|--------------|---|--|--|
| Туре К | 200 °C to 1370 °C (328 °F to 2498 °F) | 0.1 % rdg + 0.7 °C (0.1 % rdg + 1.4 °F) | |
| Type J | -200 °C to 760 °C (-328 °F to 1400 °F) | 0.1 % rdg + 0.7 °C (0.1 % rdg + 1.4 °F) | |
| Type T | -200 °C to 390 °C (-328 °F to 730 °F) | 0.1 % rdg + 0.7 °C (0.1 % rdg + 1.4 °F) | |
| Type R and S | 0 °C to 1760 °C (32 °F to 3200 °F) | 0.3 % rdg + 0.7 °C (0.1 % rdg + 1.4 °F) | |
| Type E | -200 °C to 736 °C (-328 °F to 1832 °F) | 0.3 % rdg + 0.7 °C (0.1 % rdg + 1.4 °F) | |

TMA10

Anemometer with flexible precision vane

- Measure air velocity FPM or air volume CFM
- Input surface area for accurate air flow measurements
- Flexible vane sensor
- Precise Thermistor for temperature measurements
- Continuous moving average results for up to 2 hours
- MIN/MAX/AVG readings
- Air velocity average for multiple point
- Data hold to freeze measurement display of both readings
- RS232 interface output with optional software and cable, Model TM-SW
- Deluxe hard carrying case

| Measurement | Range | Resolution | Accuracy |
|----------------------------|---|-------------|---------------------|
| Air Velocity | 0.40 to 25.00 m/s | 0.01 m/s | ± 2 % of full scale |
| Air Flow | 125 to 4900 ft/min | 1 ft/min | ± 2 % of full scale |
| Air Flow | 0.01 to 99.99 m3 /sec Area: 0 to 9.999 m | 0.01 | ± 2 % of full scale |
| Air Flow | 1 to 9999 ft3 /min Area: 0 to 9.999 ft | 1.0 | ± 2 % of full scale |
| Air Temperature °C (°F) | 0 °C to 50 °C (32 °F to 122 °F) | 0.1 °C/(°F) | ± 0.8 °C (1.5 °F) |

TRH22

Relative humidity and temperature meter

- Relative function monitors humidity and temperature changes
- Large dual display of RH and temperature
- Complete with carrying case, battery and wet bulb chart
- Min/Max/Data Hold

| Measurement | Ranges | Accuracy | Resolution |
|-------------|-------------------|-------------------|---------------|
| Relative | 0 to 100 % | 5 % RH to 95 % RH | 0.1 % RH |
| Humidity | | ±3 % RH | |
| Ambient | -20 °C to 60 °C | ±0.8 °C (±1.6 °F) | 0.1 °C/0.1 °F |
| Temperature | (-4 °F to 140 °F) | | |





IR610

Infrared Thermometer

- Laser pointer for accurate targeting
- Measures to 500 °F (260 °C), front panel switchable
- Narrow 10:1 field of view measures 1 in. at 10 in. distance
- Large 3-1/2 digit display with backlight
- Data Hold, low battery indicator
- Fixed emissivity at 0.95
- Rugged Valox® case
- Shipped with carrying case and batteries

| Range | Resolution | Accuracy |
|------------------|-------------|-----------------------|
| -20 °C to 260 °C | 1 °C (1 °F) | ± 3% of rdg or ± 3 °C |
| (0 °F to 500 °F) | | (± 6 °F) |

LM631

Digital Light Meter

- Measures wide range of light up to 20,000 fc or lux, front panel switchable
- Sensor dome has 45 in. (114 cm) attached cord
- Built-in CIE spectrum curve for accurate human eve response
- Peak Hold and Data Hold
- Large 3-1/2 digit display with backlight
- Rugged Valox® case
- Shipped with carrying case, extra lens cover and batteries

| Four Ranges | Accuracy | Resolution |
|--------------------------|-----------------------|-------------------|
| 20, 200, 2000, 20000 lux | ± (3 % rdg + 10 dgts) | 0.01 lux; 0.01 fc |
| 20, 200, 2000, 20000 fc | | |

TM45

Ideal for HVAC/R contractor, plant maintenance, commercial building service

- Unique, mini-stick design thermometer
- Small, go-anywhere size
- Type K thermocouple compatible
- °F/°C and 1°/0.1° selectable
- Data and max hold
- Type K probe and carrying case included

| 1 °F Range: -58 to 1999; ±0.3 % ±2 °F | |
|--|--|
| 0.1 °F Range : -58.0 to 199.9; ±0.3 % ±2 °F | |
| 1 °C Range: -50 to 1300; ±0.3 % ±1 °C | |
| 0.1 °C Range: -50.0 to 199.9; ±0.3 % ±1 °C | |

TC253A

Adds thermometer function to DMM

- °C/°F switchable
- Uses type K thermocouple sensor
- Includes TP255 Type K probe

| Range: -50 °C to 1000 °C | |
|--------------------------|--|
| Range: -58 °F to 1832 °F | |
| Output: 1 mV/° | |



Thermocouple

- Master probe handle for probes below
- Concept saves money when
 - two or more probe styles are used
- replace only probes if damaged
- 5:1 expandable coiled extension wire



- Immersion probe tip
- 650 °C/1200 °F
- Use with MH101K handle

TP120K

- Surface probe tip
- Specially designed to get true surface temperatures
- 650 °C/1200 °F
- Use with MH101K handle

TP130K

- Air/gas probe tip
- Specially designed with radiation sheath
- 650 °C/1200 °F
- Use with MH101K handle

TP255

Low-cost, general purpose Type K probe

• 200 °C/392 °F

TP254

Higher-temperature immersion probe

- · Attached handle
- 1100 °C/2012 °F



IR610



New!

AC71

Automatic AC clamp multimeter with backlight

- Automatic bright blue backlight
- AutoTect™ function selector for ac V, dc V and Ω detection
- Simple one button control
- AC current to 600 A
- AC/DC volts to 750 V/ 1000 V
- CAT II 1000 V, CAT III 600 V safety rated







Clamp Meters and Amp Clamps



AC clamp multimeter for electrical and HVAC applications

- Three tools in one: clamp meter, multimeter, thermometer
- Digital thermometer 1000 °F (400 °C), with Type K probe
- AC/DC volts 750 V/1000 V
- 40 MΩ resistance
- Low dc μAmps for flame rod detector testing
- Capacitance to 4000 μF for motor run/start testing
- Continuity beeper
- 4000-count large digit display
- Auto power off
- Full overload protection
- CAT II 1000 V, CAT III 600 V safety rated
- One-year warranty
- Carrying case











AC Line Splitter

 Measures load current without splitting line cord

 Two measurement points, X1 and X10 for increased sensitivity

- Built-in voltage measurement jacks
- One-year warranty

(not available in all countries)



Pick the clamp meter that is right for you.

| | AD40A | AC40A | AC65 | AC68 | AC71 | AC75 | AD105 | |
|------------|----------------|----------------|------------------|------------------|-----------------|-----------------|----------------|--|
| AC Current | 40/400 A | 40/400 A | 400/600 A | 400/600 A | 60/400/600 A | 400/600 A | 400/1000 A | |
| True RMS | - | - | Yes | - | - | - | Yes | |
| AC Voltage | - | 600 V | 600 V | 600 V | 750 V | 750 V | - | |
| DC Current | - | - | - | 400/600 A | - | 400/4000 μΑ | 400/1000 A | |
| DC Voltage | - | 600 V | - | 600V | 1000V | 1000 V | - | |
| Resistance | - | 400 Ω | 40 kΩ | 40 kΩ | 2000 kΩ | 40 MΩ | - | |
| Frequency | - | - | - | 20 kHz | - | - | 10 kHz | |
| Continuity | - | Yes | Yes | Yes | Yes | Yes | - | |
| Jaw Size | 1 in (2.54 cm) | 1 in (2.54 cm) | 1.6 in (4.06 cm) | 1.6 in (4.06 cm) | 1.3 in (3.3 cm) | 1.3 in (3.3 cm) | 2 in (5.08 cm) | |
| Carry Case | Included | Included | Included | Included | Included | Included | Included | |
| Warranty | One-year | One-year | One-year | One-year | One-year | One-year | One-year | |



AC40A



AC40A

Compact clamp multimeter measures up to 400 A ac plus voltage, resistance and continuity. Measures low ac current in 40 A range

- 40 and 400 A ranges
- 600 V ac and dc range
- 10 mA resolution in 40 A range
- 4000-count display with bargraph
- Autoranging, Data Hold and auto-off
- CAT III 600 V rated

AD40A

Compact clamp meter measures up to 400 A ac in tight spaces. Measures low ac current in 40 A range

- 40 and 400 A ac ranges
- 10 mA resolution in 40 A range
- 4000-count display with bar graph
- Autoranging, Data Hold and auto-off
- CAT III 600 V rated

AC65

Rugged True RMS ac clamp multimeter measures non linear load current

- Professional's 600 A AC-DMM
- Voltage to 600 V ac
- Resistance and continuity
- Autoranging, Data Hold and 4000-count
- CAT II 600 V, CAT III 300 V rated

AC68

Extended DMM features such as frequency combine with an ac/dc current measurement for our most versatile clamp meter

- Top-of-the-line professional clamp DMM
- AC and dc current to 600 A
- AC and dc voltage to 600 V
- Resistance
- Continuity
- Data and ac peak hold
- CAT III 600 V rated

AD105

Our best True RMS clamp delivers the widest range of current measurement with ability to measure non-linear loads to 1000 Amps

- Broad range 1000 A, ac and dc ammeter
- 4000-count, True RMS, autoranging and frequency
- Peak hold and dc auto zero
- Belt-clip sleeve case included
- CAT III 1000 V rated



Current Transformers

CT231A

• AC current clamp, 200 A (50/60 Hz)

Wide ac bandwidths

CT235

- AC/DC current clamp, 1000 A (50/10 kHz)
- AC/DC current clamp, 200 A (50/10 kHz) **CT238**
- AC/DC current clamp, 20 A (50/20 kHz)
- Low Current version

| | CT231A | CT235 | CT237 | CT238 | |
|---------------|-------------------|--------------------------|---|------------|--|
| Current Range | 200 A ac | 1000 A ac/dc 200 A ac/dc | | 20 A ac/dc | |
| Output | mA | mV | mV | mV | |
| Conductor Max | 0.78 in (1.98 cm) | 1.2 in (3.05 cm) | 1.2 in (3.05 cm) 0.75 in (1.91 cm) 0.75 in (1 | | |
| Warranty | One-year | One-year | One-year | One-year | |





HD Series

The HD Series of DMMs is designed for professional use in harsh environments.

The meters are unusually rugged and reliable in everyday heavy use applications. Each meter is made using waterproof construction to prevent dirt, grime and moisture from entering the case and causing inaccurate readings or damaging shorts.

They are built of tough, fire-retardant thermoplastic resistant to grease and chemical spills, with all sensitive components shockmounted for a drop resistant to at least eight feet.

Every meter in the HD line has an extended voltage measurement capability of 1500 V dc and 1000 V ac, unmatched by any other line of digital multimeters. The extended voltage ranges can withstand transients up to 6 kV.

HD Series Heavy-Duty DMMs



HD110/HD110T

Completely sealed and environment proof meters

- V dc accuracy of 0.1 %
- Superior 1500-hour battery life

HD110T

- All the features of the HD110 plus temperature measurement to 1093 °C (2000 °F)
- Type K probe included Not for sale in EC







HD110B, HD115B, HD160B

Three rugged DMMs constructed for IP67 water proofing and harsh environments

- MIL-PRF-28800 rated
- Drop proof special housing and PCB mounting
- Extra fusing and protection from accidental overloads
- Highest voltage measuring to 1500 V dc and 1000 V ac
- Oversized shock mounted LCD display
- Auto power off
- Unique live voltage safety tester

HD115B also includes

- Digi-Glo™ backlight
- Capacitance

HD160B also includes

- True RMS
- Autoranging, 10,000 count
- Menu Selectable Max/Min, Relative, Probe Hold

Pick the heavy-duty meter that is right for you.

| | HD110 | HD110T | HD110B | HD115B | HD160B |
|------------------|--|--|---|---|--|
| Volts | 1500 V dc/1000 ac | 1500 V dc/1000 ac | 1500 V dc/1000 ac | 1500 V dc/1000 ac | 1500 V dc/1000 ac |
| Ranging | Manual | Manual | Manual | Manual | Auto |
| Basic Accuracy | 0.1 % | 0.1 % | 0.1 % | 0.1 % | 0.1 % |
| AC Conversion | Average | Average | Average | Average | True RMS |
| AC/DC Current | 10 A, Fused | 10 A, Fused | 10 A, Fused | 10 A, Fused | 10 A, Fused |
| Resistance | 20 MΩ | 20 MΩ | 20 MΩ | 20 MΩ | 40 MΩ |
| Capacitance | - | - | - | 20 mF | - |
| Diode/Continuity | Yes | Yes | Yes | Yes | Yes |
| Display | 2000-count | 2000-count | 2000-count | 2000-count | 10,000-count |
| Holster | - | - | Magne-Grip™ | Magne-Grip™ | Magne-Grip™ |
| Extra Features | 1500 hour battery life, high input transient protection | Temperature to 2000 °F (1093 °C), type K probe included, high input transient protection | Data Hold, test leads | Probe Hold Peak Hold Min/Max Digi-Glo™ backlight, test leads | Probe Hold™ Range Lock Min/Max Digi-Glo™ backlight Rel Mode analog bar graph, test leads |
| Safety Rating | MIL-T-28800 | MIL-T-28800 | CAT III 1000V IP67 MIL-PRF-28800F | CAT III 1000V IP67 MIL-PRF-28800F | CAT III 1000V IP67 MIL-PRF-28800F |



General Purpose Testers













AM8

Analog multimeter for the home, car or workshop

- High sensitivity taut band movement
- 5 functions/15 ranges
- Battery test
- Ohms zero adjust
- Holster included
- Compact size

DM₂

Compact multimeter with detachable test leads for the home, car or workshop

- Replaceable, plug-in test leads
- 5 functions/17 ranges
- 2000-count
- Small enough for any tool kit

Not for sale in EC

DM7

Compact multimeter with attached test leads for the home, school or workshop

- 6 functions/14 ranges
- Special loading to test household batteries
- 2000-count
- Holster included

DM9

Compact autoranging meter with battery test function for home office or workshop

- Higher resolution, 4000-count autoranger
- 8 functions/19 ranges
- Continuity beeper
- Special loading to test household batteries
- Holster included

DM78A

Voltage, continuity, diode and resistance in a credit card size meter

- 5 functions/16 ranges
- Auto power off, Data Hold
- Protective case included
- 3200-count display with analog bar graph

DM73B

Meter with built-in test probe for one-hand operation.

- Unique pen shape autoranger
- Two probe tip lengths 0.5 in. (1.27 cm) and 3 in. (7.62 cm)
- Allows one-hand operation
- 3400-count display with analog bar graph
- Data hold, Auto-off

TP73B Replacement probe tips for

DM73B meter

• 0.5 in. (1.27 cm) and 3 (7.62 cm) in. probe tip lengths



Pick the Pocket Size meter that is right for you.

| | AM8 | DM2 | DM7 | DM9 | DM78A | DM73B |
|--------------------------|------------------|------------------------------|------------------------------|-------------------------|---|---|
| Style | Analog | Digital with manual range | Digital with manual range | Digital with auto range | Digital with auto range | Digital with auto range |
| Volts ac/dc | 500 V | 500 V/1000 V | 600 V | 600 V | 600 V | 600 V |
| Current | 250 mA dc | 200 mA dc | 200 mA dc | 400 mA ac/dc | N/A | N/A |
| Resistance | 2 ΜΩ | 2 ΜΩ | 2 ΜΩ | 40 MΩ | 32 MΩ | 34 MΩ |
| Battery Test | 1.5 V, 9 V | N/A | 1.5 V, 9 V | 1.5 V, 9 V | N/A | N/A |
| Continuity Beeper | N/A | N/A | N/A | Yes | Yes | Yes |
| Special Features | Holster | Small tool kit DMM | Holster | Holster | Analog bar graph, Auto Power Off, Data Hold | Analog bar graph, Auto Power Off, Data Hold |
| Safety Ratings | CE, CAT II 300 V | N/A | CE, CAT II 600 V | CE, CAT II 600 V | CE, UL, CAT II 300 V | cULus, CAT III 300 V CAT II 600 V |
| Warranty | One-year | One-year | One-year | One-year | One-year | One-year |



ECB50

Circuit Breaker Finder

Three testers in one: identify circuit breaker to an electrical socket, trace ac cables in walls, sort wires in a bundle

- Microprocessor controlled
- Coded transmission allows easy separation of transmitter signal
- Audible and visual indicators
- Low battery indicator
- Cable tracing depth up to 16 inch (40 cm)
- NEMA 5-15 plug
- UL Listed
- CAT III 150 V rated
- One-year warranty

Shuko CEE 7/4 version available, CAT III 300 V, sold as Model ECB50-FGIS British standard BS 1363 version available, CAT III 300V, sold as Model ECB50-E



Electrical Testers



ST101

Socket Tester

- Fast and easy socket test
- Easy-to-read light indicators
- Confirm proper wiring and operation of ac socket
- For use on 110-125 V ac
- cULus listed

not available in all countries



ST102

GFCI Socket Tester

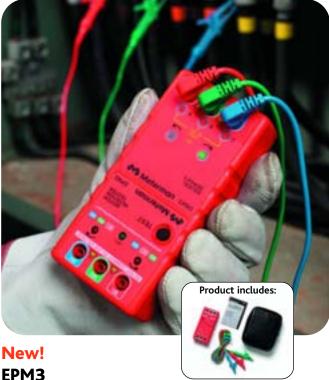
- Test 110-125 V ac GFCI breakers for proper wiring and operation
- GFCI circuit trips to confirm tester is working
- cULus listed

not available in all countries

VT201

Non-Contact **Voltage Detector**

- Quickly check for the presence of ac voltages, with no electrical contact
- Safe non-contact detection of voltages from 70 V to 440 V ac
- Both visible and audible indicators
- · Detector emits loud audible chirping
- Bright flashing LED
- Batteries included
- UL and CE listed



Phase Sequence and Motor Rotation Tester

Compact three function tester

- Identify proper phase sequencing of live three phase line voltages
- Determine three phase motor rotation direction
- Check for open phase status
- Bright LED illuminators to clearly indicate test results
- Includes three color coded test leads with large alligator clips
- Convenient carrying case for portability and storage
- CE, IEC1010, EN61557-7, TUV, cCSAus, CAT III 600V rated
- Highest safety rated tester available

VT102

Voltage Tester

- 4 bright neon lights indicate ac voltage
- 4 ranges indicated from 110 V to 460 V ac
- Tests 2 wire and 3 wire ac outlets
- cULus listed



VT101

Voltage Tester

- Bright neon light indicates ac voltage
- Identify ac voltage from 90-500 V ac
- Tests 2 wire and 3 wire ac outlets
- cULus listed





Bench-top Instruments

FG2C

- 3 MHz function generator
- High feature and low cost
- Easy push-button selection for power, range and waveform
- Square, triangle, sine wave and TTL/CMOS outputs
- Duty cycle and dc offset control VCF input
- Includes test cables and spare fuses



FG3C

- 3 MHz sweep/function generator
- Built-in, 6-digit display 150 MHz frequency counter
- Best value combination generator
- Square, triangle, sine wave and TTL/CMOS outputs
- Amplitude or frequency modulation
- Linear and logarithmic sweep modes
- Duty cycle, VCF and dc offset control
- Includes test cables and spare fuses



BDM40

- True RMS, 4-1/2 digit and 20,000-count multimeter
- AC or ac + dc input coupling
- High accuracy, basic V dc 0.03 %
- Voltage to 1200 V dc, 1000 V ac
- Current from 10 nA to 20 A
- ullet Resistance from 10 Ω to 20 $M\Omega$
- Interlocking push-button control for easy selection
- CAT I 1000 V rated
- One-year warranty



Note: all three models ship with 220 V and 117 V operation. They include both sets of line cords and fuses.

Pick the function generator that is right for you.

| | FG3C | FG2C |
|----------------------|--|------------------------|
| Frequency Ranges | 7 Ranges, 0.3 to 3 MHz | 7 Ranges, 0.3 to 3 MHz |
| Output Amplitude | 20Vp-p open circuit 20Vp-p open circuit | |
| Sine Wave distortion | Wave distortion ≤1 %, 0.3 to 200 kHz ≤1 %, 0.3 to 200 kHz | |
| AM - Depth | 0-100 % N/A | |
| AM - Mod. Frequency | d. Frequency 400 Hz (int), dc to 1 MHz ext N/A | |
| Carrier Bandwidth | 100 Hz to 3 MHz (-3dB) N/A | |
| FM - Deviation | 0 to +/- 5 % | N/A |
| FM - Mod. Frequency | 400 Hz (int) dc to 20 kHz (ext) | N/A |
| Display, Freq. Adj. | 6 digit, 0.3 in. high LED | Dial Control |
| Power Supply | 115 V ac or 230 V ac, 60 or 50 Hz | |
| Warranty | nty One-year One-year | |

When your applications are best suited to bench-top style meters, look to Meterman for solutions. For depot service, design engineer's, production or QC benches, school labs and more, Meterman offers three different low-cost/ high-feature test instruments. All are housed in an attractive custom case with a cushion grip, non-skid, tilt-stand handle, rear power cord wrap, and grooved channels to allow stacking.



Specialty handheld probes

LP10A/LP25A

- Pen-size logic probes
- Troubleshoot and analyze digital logic circuits

LP10A: Good value for most common circuits

Detects pulses > 30 ns up to 17 MHz, TTL, CMOS levels and dual LEDs indicate hi/lo state

LP25A: Increased frequency range

Detects Pulses > 30 ns up to 25 MHz, TTL, CMOS, DTL, RTL, NMOS, MOS Logic Dual LEDs and Tone Indicate Hi/Lo State



HV231-10

- High voltage probe
- Extended voltage measuring to 40 kV
- Use with standard multimeters with 10 M Ω input impedance

SF10

Exclusive patented technology provides the fastest and easiest method of finding shorts and tracing circuits on PCBs

- Brush probe quickly troubleshoots printed circuits, multi-conductor cables, mass terminations, backplanes, connectors and IC sockets
- · Low-test voltage protects sensitive circuitry

| Output Voltage | 0.5 V dc | |
|----------------|-----------------|---|
| Max Current | 100 uA | |
| Continuity | < 10 Ω | |
| Brush Material | Stainless Steel | , |



HV231-10

Handheld Component Testers

CR50

Compact component checker

- Measures capacitance and resistance
- Wide measurement ranges
- Dual zero adjustment pots to null strays and test leads
- Special "Low Ohms" range

LCR55

Full-size component checker

- Measures inductance, capacitance, resistance, transistors, diodes and microwave diodes
- Wide measurement ranges
- Data hold, max hold and auto-off

| | CR50 | LCR55 | | | |
|-----------------|---|---|--|--|--|
| Resistance | 0.01 Ω - 20 M Ω , ± 1.0 % | 0.01 Ω - 20 M Ω , \pm 0.5 % | | | |
| Capacitance | 0.1 pF - 20,000 µF, ±0.5 % | 0.1 pF-2000 μ F, ± 1.0 % | | | |
| Inductance | | 0.1 μ H-200 H, \pm 5.0 % | | | |
| Transistors | | Hfe, Iceo (NPN, PNP) | | | |
| Diodes | Yes | Std (3 V) and microwave oven (8 V) | | | |
| Continuity Test | Yes | Yes | | | |





Multimeter Accessories

Accessories Cross-Reference Guide

| Model | Description | XR Series | HD Series | XP Series | PM Series | DM73B | LCR55 CR50 | DM7 DM9 | AM8 DM2 |
|-----------|--|----------------------|--------------|--------------|--------------|-------|---------------|------------|------------|
| Carrying | Cases | | | | | | | | |
| VC3 | Zippered Denier | | | | Х | | | | |
| VC11 | Vinyl | | | | | Х | | | |
| VC20 | Padded vinyl, zipper | | | | | | | | Х |
| VC30 | Padded vinyl, zipper, belt loop | | | Х | | | CR50 | Х | |
| VC221A | Padded vinyl, zipper, belt loop | Х | Х | | | | LCR55 | | |
| DC205B | Deluxe case, shoulder strap | Х | Х | | | | | | |
| DC207B | Deluxe case with clamp pocket | Х | Х | | | | | | |
| Test Lead | ls and Probe Tips | | | | | | | | |
| RTL25 | Replacement test leads, non-shrouded plugs | | | | | | | | DM2 |
| TL35A | Standard leads with alligator clips, 0.6 in. (.15 cm) jaw | х | х | х | | | х | | |
| TL36 | Standard leads with alligator clips, 0.4 in. (.1 cm) jaw | Α | х | х | | | А | | |
| TL244A | Heavy duty leads, silicone, 48 in. (121.9 cm) long, Ever Sharp™ tips | х | х | х | | | х | | |
| TL245 | Standard leads, shrouded 90° banana plugs | | A | A | | | х | | |
| TL246B | Silicone leads with large alligator clips | х | x | х | | | x | | |
| TL73B | Replaceable ground test lead with alligator clip | | | | | х | | | |
| DL243C | Basic Test Lead Kit, silicone | Х | Х | Х | | | Х | | |
| DL248C | Deluxe Test Lead Kit, silicone | Х | Х | Х | | | Х | | |
| Other Ac | cessories | | | | | | | | |
| H-PM | Silicone Holster | | | | Х | | | | |
| H-XP | Magne-Grip Holster, compact size | | | Х | | | | | |
| H1-XR | Magne-Grip Holster, full size | 30XR 38XR | | | | | | | |
| H2-XR | Magne-Grip Holster, full size | 33XR 34XR 37XR | | | | | | | |
| TC253A | Temperature Converter | В | В | В | | | | | |
| XR-TA | Temperature Adapter | С | | | | | | | |
| 38-SW | RS232 Cable and Software, DMM | D | | | | | | | |
| TM-SW | RS232 Cable and Software, HVAC | E | | | | | | | |









A: Originally supplied with instrument **B:** TC253A not required for HD110T, 35XP, 33XR, 34XR, 38XR

C: Models 35XP, 33XR, 34XR, 38XR, AC75

D: Model 38XR Only

E: Models TMA10 and TMD90 only



What's New!





EPM3 Safe and simple go-no-go testing for phase sequence and motor rotation, see page 16



AC71 Easy, one button operation with this automatic clamp multimeter and bright backlight, see page 12

Small Package Big Performance

Introducing the new PM Series Compact multimeter designed for industrial

- Ultimate shirt-pocket size for portability
- AutoTect™ feature directs the meter to automatically measure ac or dc volts or resistance
- VolTect™, a built-in ac volt detector
- Measures ac/dc microamp current
- Capacitance, frequency and continuity
- Large oversize display
- Full safety ratings of CAT III 300 V and UL

PM55
The world's smallest
full-featured CAT III
multimeter-portability
at its best,
see pages 2 and 3



Meterman® The right tool everyday. $^{\text{\tiny{TM}}}$

Meterman Test Tools

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Volume 6

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Specifications subject to change without notice.