

# Clamp meters and amp clamps



## AC40A

Compact clamp multimeter measures up to 400 A ac plus voltage, resistance and continuity.

- Measures low ac current in 40 A
- 10 mA resolution in 40 A range
- 600 V ac and dc range
- 4000-count display with bargraph
- Autoranging, Data Hold and auto-off

Note: Also available as the AD40A as a mini clamp ammeter, See chart for performance details.



AC40A



## 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



AC65



## AC68

True-rms clamp with extended 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



AC68



## AD105

Our top 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



AD105



**New!**

## AC50

Current clamp multi-meter with leakage current capability.

Current clamp multimeter for measuring low ac current in the microamps. Great for applications requiring measurement of leakage and fault currents.

- AC current measurement to 60 A
- Leakage current measurements with resolution of 0.01 mA
- AC voltage to 400 V
- Resistance measurement and continuity beeper
- Min/Max control to see largest and smallest values



Digital display with analog bargraph

AC50





**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



**AC75**  
AC clamp multimeter for electrical and HVAC applications.

- Three tools in one: clamp meter, multimeter, thermometer
- Digital thermometer 400 °C (1000 °F), 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
- Carrying case and heavy duty test leads



**Optional accessories**

- AC Line Splitter, ELS2
- Test lead kit, DL243C
- Temperature probes, see page 13



AC75

**Current transformers**

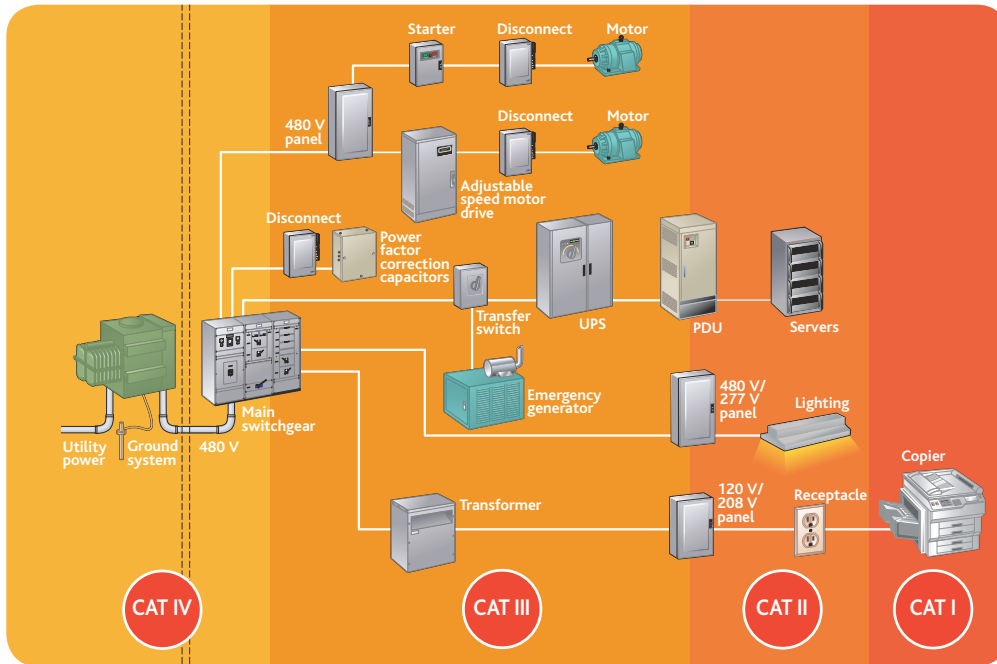
Current clamp transformers are available from Meterman. Use one of these to allow your DMM the capability to measure high ac or dc current. See Accessory page 18 for complete product details.



**Pick the clamp that is right for you.**

	AD40A	AC40A	AC50	AC65	AC68	AC71	AC75	AD105
<b>Measurement</b>								
<b>DC current</b>								
<b>AC current</b>	40/400 A	40/400 A	60 A	400/600 A	400/600 A	60/400/600 A	400/4000 μA	400/1000 A
<b>True-rms</b>				•	•			•
<b>DC voltage</b>		600 V			600 V	1000 V	1000 V	
<b>AC voltage</b>		600 V	400 V	600 V	600 V	750 V	750 V	
<b>Resistance</b>		400 Ω	400 Ω	40 kΩ	40 kΩ	2000 kΩ	40 MΩ	
<b>Continuity</b>		•	•	•	•	•	•	
<b>AutoTect™</b>						•		
<b>Capacitance</b>							4000 μF	
<b>Frequency</b>					20 kHz			10 kHz
<b>Temperature</b>							1300 °C (2372 °F)	
<b>Features</b>								
<b>Counts</b>	4000	4000	4000	4000	4000	6000	4000	4000
<b>Auto power off</b>	•	•	•				•	
<b>Analog bar graph</b>	•	•	•					
<b>Backlight</b>						•	•	
<b>Min/Max</b>			•					
<b>Data Hold</b>	•	•	•	•	•	•	•	
<b>Jaw size</b>	1 in (2.54 cm)	1 in (2.54 cm)	1.3 in (3.3 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)
<b>Ships with</b>	Carry case	Carry case, test leads	Heavy-duty test leads, carry case	Carry case, test leads	Carry case, test leads	Carry case, test leads	Type K temp. probe, temp. adapter, carry case, test leads	Carry case
<b>Safety rating</b>	CAT III 600 V	CAT III 600 V	CAT II 600 V	CAT II 600 V, CAT III 300 V	CAT III 600 V	CAT II 1000 V, CAT III 600 V	CAT II 1000 V, CAT III 600 V	CAT III 1000 V
<b>Warranty</b>	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year

# Safety



## UL and CE EN61010-1 voltage ratings

EN61010-1 category and voltage ratings on multimeter products.

## 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 to meet any testing 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.

## International safety standards

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 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\*

<b>CAT I</b> Electronics, signal level single-phase receptacle loads	<b>CAT II</b> Appliances, portable tools,
<b>CAT III</b> Three-phase distribution, large building lighting systems, outside distribution panel devices	<b>CAT IV</b> Three-phase at utility connection, electricity 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 rating.

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

	UL	cCSAus	CAT I	CAT II	CAT III	CAT IV
<b>Multimeters</b>						
30XR	Yes	cULus		600 V	300 V	
33XR	Yes	cULus		1000 V	600 V	
34XR	Yes	cULus		1000 V	600 V	
37XR	Yes	Yes		1000 V	600 V	
38XR	Yes	Yes			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	
AM8B	Yes	cULus		300 V		
DM7				600 V		
DM73B	Yes			600 V	300 V	
DM78A	Yes		600 V	300 V		
DM9				600 V		
HD110B					1000 V	
HD115B					1000 V	
HD160B					1000 V	
PM51	Yes	cULus		600 V	300 V	
PM53	Yes	cULus		450 V	300 V	
PM55	Yes	cULus		600 V	300 V	
<b>Electrical</b>						
ECB50	Yes				150 V*	
EPM3		Yes			600 V	
VT500	Yes	cULus			300 V	
<b>Clamp Meters</b>						
AC40A		Yes			600 V	
AC50	Yes	cULus		600 V		
AC65				600 V	300 V	
AC68	Yes	Yes			600 V	
AC71		Yes		1000 V	600 V	
AC75		Yes		1000 V	600 V	
AD105					1000 V	
AD40A		Yes			600 V	
<b>Bench Top Meter</b>						
BDM40			1000 V			

\* US version. Products sold in other countries may vary. All of the products shown in this catalog are CE marked and for sale in the EC except: TP probes and TL246B.

