

# AC/DC CLAMP METERS



## 1000A AC/DC CLAMP METER



The MT777 is a CAT IV 600V, 6000 count True RMS 1000A AC/DC digital clamp meter with an analogue bargraph indication on a TFT colour display, providing fast sampling time with high accuracy. The meter has a built in Data logger with 100 Graph Data review, using Bluetooth, the meter wirelessly transmits data to the Android or iOS mobile App allowing the user to view, save, organise and share recordings. The VFD function allows the user to measure stable voltage in high frequency applications, while the Low Z range function has a low pass filter to eliminate errors caused by "Ghost" voltages. The meter measures 1000V AC/DC, temperature, frequency, capacitance and resistance measurements, plus 100ms Inrush current and Peak Hold. Using the optional MT740 True RMS Flexible Clamp Adaptor, the measuring range can be extended to measure 3000A AC. Added features is Non-Contact voltage detection, data hold function and a built-in flashlight for dimly lit areas. Housed in a modern double moulded rubber housing.

### Features

- 6000 count TFT colour LCD display
- Ø33mm Cable Clamp size
- Measurement of AC, AC+DC TRMS and DC voltage up to 1000V
- Capacitance to 100mF
- Temperature measurement from -40°C to 1000°C
- Trend Capture Function
- 100 Graph Data Review
- INRUSH Current Measurements
- 3000A range for optional MT740 Flex Clamp Adaptor
- VFD - Variable Frequency Drive voltage value
- LoZ - Low impedance mode prevents false readings due to "Ghost" voltage
- NCV - Non-Contact Voltage Detector
- Continuity buzzer and Diode Test
- Peak Mode, Min/Max and Data Hold function
- Built-in Flashlight and Auto Power Off

Function	Range	Accuracy
DC Current	600.0A - 1000A	±(2.5% +5)
AC Current	600.0A - 1000A	±(2.5% +5)
Flexible Coil Current	30.00A - 3000A	±(3.0% +5)
DC Voltage	600.0mV - 1000V	±(1.5% +5)
AC Voltage	6.000V - 1000V	±(1.5% +5)
LoZ AC Voltage	6.000V - 300V	±(3.0% +40)
AC+DC TRMS Voltage	6.000V - 1000V	±(2.5% +20)
Resistance	600.0Ω - 60MΩ	±(1.5% +5)
Frequency	9.999Hz - 99.99kHz	±(1.2% +5)
Capacitance	60.00nF - 100mF	±(3.0% +8)
Temperature	-40°C - 1000°C	±(1.5% +5°C)
Duty Cycle	10.0% to 90%	±(1.2% +8)
Size	230 x 66 x 44mm	
Weight	350g	

TRUERMS



MT777

## 1000A AC/DC CLAMP METER



The MT775 is a CAT IV 600V, 6000 count True RMS 1000A AC/DC digital clamp meter with indication on a large backlit LCD display, providing fast sampling time with high accuracy. The meter measures 1000V AC/DC, temperature, frequency, capacitance and resistance measurements, plus 100ms Inrush current and Peak Voltage value. The VFD function allows the user to measure stable voltage in high frequency applications of Variable Frequency Drives, while the Low Z range function has a low pass filter to eliminate errors caused by "Ghost" voltages. Added features include Relative mode for DCA and Capacitance Zero and offset adjustment, Non-Contact voltage detection, data hold function and a built-in flashlight for dimly lit areas. Housed in a modern double moulded rubber housing.

### Features

- 6000 count backlit LCD display
- Ø33mm Cable Clamp size
- Measurement of DC voltage and AC voltage up to 1000V
- Capacitance to 100mF
- Temperature measurement from -20°C to 1000°C
- INRUSH Current Measurements
- VFD - Variable Frequency Drive voltage value
- LoZ - Low impedance mode prevents false readings due to "Ghost" voltage
- NCV - Non-Contact Voltage Detector
- Built-In Flashlight
- Continuity buzzer and Diode Test
- Peak Mode and Data Hold function
- Auto Power Off

Function	Range	Accuracy
DC Current	600.0A - 1000A	±(2.5% +5)
AC Current	600.0A - 1000A	±(2.5% +8)
DC Voltage	600.0mV - 1000V	±(1.5% +2)
AC Voltage	6.000V - 1000V	±(1.5% +5)
LoZ AC Voltage	6.000V - 300V	±(3.0% +40)
Resistance	600.0Ω - 60MΩ	±(1.5% +2)
Frequency	9.999Hz - 99.99kHz	±(1.2% +5)
Capacitance	60.00nF - 100mF	±(3.0% +5)
Temperature	-20°C - 1000°C	±(3.0% +5°C)
Duty Cycle	10.0% to 90%	±(1.2% +5)
Size	230 x 66 x 44mm	
Weight	350g	

TRUERMS



MT775

## 400A AC/DC CLAMP METER



The MT723 is a CAT III 600V, 4000 count True RMS 400A AC/DC digital clamp meter with indication on a large backlit LCD display, providing fast sampling time with high accuracy. The meter measures 1000V AC/DC, temperature, frequency, capacitance and resistance measurements, plus 100ms Inrush current and Peak Voltage value. The VFD function allows the user to measure stable voltage in high frequency applications of Variable Frequency Drives. Added features include Relative mode for Capacitance Zero and DCV, ACV and ACA offset adjustment, Non-Contact voltage detection, data hold function and a built-in flashlight for dimly lit areas. Housed in a modern double moulded rubber housing.

### Features

- 4000 count backlit LCD display
- Ø30mm Cable Clamp size
- Measurement of DC voltage and AC voltage up to 1000V
- Capacitance to 100mF
- Temperature measurement from -20°C to 1000°C
- INRUSH Current Measurements
- VFD - Variable Frequency Drive voltage value
- NCV - Non-Contact Voltage Detector
- Built-In Flashlight
- Continuity buzzer and Diode Test
- Peak Mode and Data Hold function
- Auto Power Off

Function	Range	Accuracy
DC Current	40.00A - 400A	±(2.0% +8)
AC Current	40.00A - 400A	±(2.0% +8)
DC Voltage	4.000V - 1000V	±(1.0% +3)
AC Voltage	4.000V - 1000V	±(1.2% +5)
Resistance	400.0Ω - 40MΩ	±(1.5% +2)
Frequency	10Hz - 100kHz	±(1.0% +5)
Capacitance	99.00nF - 100mF	±(3.0% +5)
Temperature	-20°C - 1000°C	±(3.0% +3°C)
Duty Cycle	20.0% to 80%	±(1.2% +10)
Size	220 x 80 x 39mm	
Weight	305g	

TRUERMS



MT723