



# MT785 Bluetooth Clamp Meter TRUE RMS

The MT785 is a CAT IV 600V, 6000 count True RMS H & W analysis clamp meter that measures up to 1000A AC/DC with an analogue bargraph indication on a TFT colour display. The MT785 simultaneously measures and displays Active, Reactive and Apparent Power and Energy, and current harmonic analysis up to the 25th order with THD% calculation in a single phase. The 100ms Inrush current detects starting up currents of electric motors, input surge current, or switch-on surge currents, this is the maximum instantaneous input current drawn by an electrical device when first turned on. The meter has been designed to measure 1500V DC purposely for the Solar industry, 1000V AC, temperature, frequency, capacitance and resistance, plus the Low Z range function has a low pass filter to eliminate errors caused by "Ghost" voltages. The meter has a built in record and store function and displays trend charts, using the Bluetooth function the meter wirelessly transmits data to the Android or iOS mobile App allowing the user to view, save, organise and share recordings.

## Features

- 6000 count TFT colour LCD display
- Ø33mm Cable Clamp size
- Measurement of AC and DC current up to 1000V
- TRMS AC voltage to 1000V, DC voltage up to 1500V and AC+DC voltage measurements
- Active, Reactive, Apparent Power & Power Factor on single phase
- AC and DC Power measurements
- Energy measurements on single phase – Active, Reactive and Apparent
- Capacitance to 6000µF
- Trend Capture Function
- INRUSH Current Measurements
- AC Voltage and Current Harmonics (1 – 25) and THD% up to 75Hz (1 – 8 above 75Hz)
- 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, Min/Max and Data Hold function
- Auto Power Off

Function	Range	Accuracy
AC TRMS Current	600.0A - 1000A	±(2.5% +8)
DC Current	600.0A - 1000A	±(2.8% +5)
AC TRMS Voltage	6.000V – 1000V	±(1.5% +5)
DC Voltage	600.0mV – 1500V	±(1.5% +8)
LoZ AC TRMS Voltage	6.000V – 1000V	±(3.0% +40)
AC+DC TRMS Voltage	6.000V – 1000V	±(2.5% +20)
AC Voltage Harmonic	1 - 25 (20 - 75Hz) [0.1% THD]	±(5.0% +8)
	1 - 8 (75 - 400Hz) [0.1% THD]	±(6.0% +8)
AC Current Harmonic	1 - 25 (20 - 75Hz) [0.1% THD]	±(5.0% +20)
DC Power	99.99kW – 999.9kW	±(3.0% +5)
AC Power	99.99kW/kVA/kVAR 999.9kW/kVA/kVAR	±(3.0% +5)
Power Factor	0.20 – 1.00	±3°
Energy	9.999kW/kVA/kVAR 99.99kW/kVA/kVAR	±(3.0% +5)
Resistance	600.0Ω – 60.00MΩ	±(1.5% +5)
Frequency	9.999Hz – 9.99kHz	±(1.2% +6)
Capacitance	60.0nF – 6000µF	±(3.0% +8)
Temperature	-40°C – 1000°C	±(1.5% +3°C)
Duty Cycle	10.0% - 90%	±(1.2% +8)
Size	236 x 66 x 44mm	
Weight	350g	



Red Light Indicates Detection of Non Contact Voltage (NCV)



6000 Backlit TFT Colour Display



Rear Entry of Standard 4mm Test Leads Terminals



Easy to Identify Functions



Meter Includes Flashlight to Light Up Area of Test



## MT785 | 1500V DC H&W Analysis Clamp Meter

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