



BEETECH[®]

B-6045 **PRO**

CLAMP METER

- BEETECH B-6045 PRO is TRMS Digital Clamp meter measuring 1000A AC/DC Current, 1000V AC/DC Voltage, Temperature, Frequency, Capacitance, Resistance, NCV & more.
- It is designed and conforms to IEC-61010-1 and IEC-61010-2-032 with safety rating of CAT IV 600V and CAT III 1000V
- It features a 42mm clamp jaw and a robust design for heavy duty and everyday use.

NOTABLE FEATURES

- 1000V AC/DC Voltage
- Inrush Current
- Jaw opening from both the sides
- Dual Range Display
- Double Mold Injection
- Light and Sound NCV Indication
- Quick Response Time
- Overload Protection

PRODUCT HIGHLIGHTS



GENERAL SPECIFICATION

FUNCTION	B-6045	FUNCTION	B-6045
Display	6000 counts	LCD Backlight	Yes
Range	Auto Ranging	Bar display	Yes
DC Voltage	600mV - 1000V	Operating °C	0°C – 40°C (<80% RH)
AC Voltage	600mV - 1000V	Storage °C	-10°C – 60°C (<70%RH)
AC/DC Current	60A - 1000A	Low battery	Displays Symbol on LCD
Resistance	600Ω - 60MΩ	Battery	1.5V AAA*2
Capacitance	10nF – 100mF	Range selection	Auto
Frequency	10Hz – 10 MHz	Over Range	Displays “OL”
Continuity	Yes	Input Polarity	Displays negative “-”
NCV & Live Test	Yes	Jaw opening	42mm
TRMS	Yes	Conductor size	42mm
Auto Power Off	Yes	Dimension	236(L) x 85(W) x 40(H)
Overload Protection	Yes	Weight	305g(including battery)
Relativity Function	Yes	Measuring Principal	Double Integral A/D
Data Hold	Yes	Sampling rate	About 2 times / second

ELECTRICAL SPECIFICATIONS

AC VOLTAGE (ACV)		
RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±(1.0% ± 3 digits)
6V	1mV	
60V	10mV	
600V	100mV	
1000V	1V	±(1.0% ± 5 digits)
Input Impedance: 10M Ohms Overload Protection:1000VDC / 1000VAC RMS ACV Frequency range: 40Hz-1000Hz Display: True RMS		

DC VOLTAGE (DCV)		
RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±(0.5% ± 3 d)
6V	1mV	±(0.5% ± 3 d)
60V	10mV	
600V	100mV	
1000V	1V	±(0.8% ± 5 d)
Input Impedance: 10M Ohms Overload Protection: 1000VDC / 1000VAC RMS ACV Frequency range: 40Hz-1000Hz Display: True RMS		

AC & DC CURRENT (ACA & DCA)

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±(2.5% ± 10 d)
600A	0.1A	
1000A	1A	
Frequency Response: TRMS 50Hz – 60Hz		

RESISTANCE (Ω)

RANGE	RESOLUTION	ACCURACY
600 Ω	0.1 Ω	$\pm(1.0\% \pm 5 \text{ d})$
6k Ω	0.001k Ω	$\pm(1.0\% \pm 2 \text{ d})$
60k Ω	0.01k Ω	
600k Ω	0.1k Ω	
6M Ω	0.001M Ω	
60M Ω	0.01M Ω	$\pm(1.2\% \pm 8 \text{ d})$

FREQUENCY (Hz)

RANGE	RESOLUTION	ACCURACY
10Hz	0.01Hz	±(0.5% ± 4 d)
100Hz	0.1Hz	
1kHz	0.001kHz	
10kHz	0.01kHz	
100kHz	0.1kHz	
1MHz	0.001MHz	
10MHz	0.01MHz	
Overload Protection:250VDC or 250VAC RMS		

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
10nF	0.01nF	±(4.0% ±25 d)
100nF	0.1nF	±(4.0% ±15 d)
1uF	0.001uF	
10uF	0.01uF	
100uF	0.1uF	
1mF	0.001mF	±(5.0% ±25 d)
10mF	0.01mF	
100mF	0.1mF	
Overload Protection:250VDC or 250VAC RMS NCV: ACV > 60V-1000V/50Hz-60Hz Live Wire: AC V>80V-250V/ 50Hz to 60Hz		

TEMPERATURE ($^{\circ}\text{C}$ & $^{\circ}\text{F}$)

UNIT	RANGE	ACCURACY
$^{\circ}\text{C}$	-20 $^{\circ}$ ~ 0 $^{\circ}\text{C}$	$\pm 4^{\circ}\text{C}$
	0 $^{\circ}$ ~ 400 $^{\circ}\text{C}$	$\pm(2.0\%+3\text{d})$
	400 $^{\circ}$ ~ 1000 $^{\circ}\text{C}$	$\pm(3.0\%+3\text{d})$
$^{\circ}\text{F}$	-4 $^{\circ}$ ~ 50 $^{\circ}\text{F}$	$\pm 5^{\circ}\text{F}$
	50 $^{\circ}$ ~ 750 $^{\circ}\text{F}$	$\pm(2.0\%+5\text{d})$
	750 $^{\circ}$ ~ 1832 $^{\circ}\text{F}$	$\pm(3.0\%+5\text{d})$
Resolution: 1 $^{\circ}\text{C}$ & 1 $^{\circ}\text{F}$ respectively. Overload Protection:250VDC or 250VAC RMS		

DIODE & CONTINUITY

RANGE	DESCRIPTION
BUZZER	Built-in buzzer will beep if Resistance is less than 50 Ω $\pm$ 30 Ω
DIODE	Display approximate forward voltage of diode.