



Extech's True RMS Power Clamp Meters perform all the functions of a current clamp meter with the added capability to simultaneously measure voltage and current to determine power. Ideal for energy efficiency studies, power factor correction and evaluation of distribution systems.



Featuring Models with:

Wide Power Ranges

Measure power of large appliances to industrial machinery

Single and Three Phase

Automatic calculation of three phase power from consecutive single phase readings

Datalogging

Store data and transfer to a PC for analysis and report generation

<< 382068 1000A True RMS Clamp-on Power Datalogger Kit

is capable of storing up to 4000 readings. The stored data can then be downloaded to a PC using the supplied software and cable. Ideal for long term power or current monitoring of single phase equipment.



DA30 Non-contact Current detector is ideal for identifying current flow. See p.18

NIST Certificates

From
\$90

For an additional charge, Extech will supply your meter complete with a Certificate of Calibration Traceable to N.I.S.T. **To order meter with NIST**, add "NIST" to the meter part number and add \$90 to the cost of your meter. (i.e. 380940-NIST \$389).

*NIST for 382075 - Add \$210

**NIST for 382068 - Add \$150



380940

\$299

400A True RMS AC/DC Watt Clamp-on

Measures Watts, Current, and Voltage

- Large LCD with 40 segment analog bargraph
- Data Hold, Max/Min recall, Auto Zero (DC current), plus low battery indication
- Complete with test leads, 2 AA batteries, and carrying case

Specifications

Model	380940
Display counts:	4000 count LCD
Jaw size/Cable size:	0.9" (23mm); 350MCM
True RMS:	Yes
True Power (max res.):	40kW, 240kW AC/DC (10W)
Basic Accuracy (ACA):	±(1.5%rdg+3d)
Apparent Power:	—
Reactive Power:	—
Power Factor:	—
Phase Angle (φ):	—
Peak Capture:	—
AC/DC Current (max res.):	400A AC/DC (0.1A)
µA AC+DC Current (max res.):	—
AC/DC Voltage (max res.):	600VAC/400VDC (1VAC/0.1VDC)
Resistance (max res.):	—
Capacitance (max res.):	—
Frequency (max res.):	100Hz to 1MHz (0.01Hz)
Temperature - Type K (max. res.):	—
CE/UL/Category rating:	CE, UL, CAT II-600V
Dimensions/Weight:	7.2x2.5x1.4" (183x64x36mm)/ 6.7oz (190g)
Warranty:	1 year
Price:	\$299



380975
\$199

1000A True RMS AC Power Clamp Meter

Measurements include Power (kW), Current (μ A), Insulation Resistance ($M\Omega$) and Temperature ($^{\circ}C/^{\circ}F$)

- Large dual LCD display
- Measures True Power, Apparent Power and Phase Angle with Lead/Lag indicator
- AC+DC μ A Current with 10nA resolution for flame rod tests
- Auto Detect AC/DC Voltage measurements with simultaneous Frequency display
- Diode and Continuity tests
- Max/Min recording
- Auto power off with disable feature
- Complete with test leads, Type K probe, carrying case, and 9V battery



382075
\$599

2000A True RMS 3-Phase Clamp-on Power Analyzer

Measures, computes, and displays 3-Phase Power on Balanced or Unbalanced Loads

- Display Lead/Lag Current/Voltage phase shift in degrees
- Store/recall last 5 readings
- DC Current Auto-Zero
- Dual displays: kW+PF, kVA+kVAR, phase-angle+Hz, Volts+Hz, or Amps+Hz
- Advanced Relative and Min/Max functions
- Data Hold
- Complete with test leads, carrying case, and 9V battery



382068
\$679

1000A True RMS Clamp-on Power Datalogger Kit

Datalogs up to 4000 readings

- 1000A Clamp measures 1 ϕ or 3 ϕ (phase) power to 600kW
- Dual display of kW+PF, kVA+PE, V+A, A+Hz or V+Hz
- Data Hold and Auto Power Off
- 25 point memory viewable on display
- Full function display on large 4-digit LCD with fast 40 seg. bargraph, Peak Hold, MIN/MAX
- Complete Kit includes Clamp on Power Datalogger, 9V battery, alligator clips, test leads, RS-232 module, Windows[®] 95/98/NT/2000/ME/XP compatible software, cable and carrying case.

380975	382075*	382068**
10,000 count LCD	4000 count LCD	9999 count LCD
1.6" (40mm); 500MCM	2.2" (55mm); 1000MCM	1.8" (46mm); 1000MCM
Yes	Yes	Yes
600kW (10W)	1200kW (0.01kW)	600kW (0.01kW)
$\pm(2\%rdg+20d)$	$\pm(1.5\%rdg+5d)$	$\pm(1.5\%rdg+5d)$
600kVA (10VA)	1200kVA (0.01kVA)	600kVA (0.01kVA)
—	1200kVAR (0.01kVAR)	—
Yes	Yes	Yes
-45 to +40 $^{\circ}$	-90 to +90 $^{\circ}$ (0.1 $^{\circ}$)	—
—	—	1000A/600V
1000A AC (10mA)	2000A AC/DC (0.1A)	1000A AC/DC (0.1A)
1000 μ A Trms (0.01 μ A)	—	—
600V (0.1mV)	600V (0.1V)	600V (0.1V)
1000k Ω , 100M Ω (0.1 Ω)	—	10k Ω (1 Ω)
7000 μ F (0.001 μ F)	—	—
40Hz to 1kHz (0.1Hz)	40 to 400Hz (0.1Hz)	5kHz (0.1Hz)
-58 to 1000 $^{\circ}$ F or -50 to 900 $^{\circ}$ C (0.1 $^{\circ}$)	—	—
CE, UL, CAT III-600V	CE, UL, CAT III-600V	CE, UL, CAT III-600V
9x3x1.6" (228x76x39mm)/ 16.4oz (465g)	10.7x4.8x1.8" (271x122x46mm)/ 24.7oz (700g)	10.2x3.7x1.8" (260x93x45mm)/ 15.9oz (450g)
1 year	1 year	1 year
\$199	\$599	\$679

380801
380803
From
\$599

Appliance Tester/Power Analyzer

Compact, battery operated device for analyzing AC/DC power loads — with PC interface plus datalogging

Features:

- Four simultaneous displays of Watts, Power Factor or VA, Voltage or Hz, Amps
- True RMS Voltage & Current measurements of sine, square, triangular and distorted wave forms with a crest factor < 5
- Plug device to be tested directly into the Power Analyzer
- Max, Data Hold and Overload Protection
- Battery or AC adaptor provides line isolation
- Sampling (update) rate is 2.5 times/second
- Complete with Windows compatible software, cable, 8 x AA batteries, power cord, 117 VAC adaptor and case, one year warranty

Specifications

Function	Range	Resolution	Accuracy (%rdg+digit)	Input Signal Range
Watt (AC/DC)	200, 2000W	0.1W, 1W	±(0.9%+4d)	300V, 20A, DC to 400Hz
Power Factor (Watt/VA)	0 to 1.00	0.001	±4 digits	250V, 20A, 50/60Hz
Voltage	200V, 750V	0.1V, 1V	±(0.9%+3d)	
Current	2/20A via terminals 2/15A via sockets		±(0.9%+3d)	(Fuse Protected)
Frequency	2kHz, 20MHz	1Hz to 10kHz	±(0.5%+2d)	
Dimensions/Weight	13.9x11.8x3.9" (352x300x100mm) / 3.6lbs (1.6kg)			

Ordering

380801	..... True RMS Single Phase Power Analyzer	..... \$599
380801-NIST	..... TRMS Single Phase Power Analyzer with NIST Certificate	..... \$704
380803	..... True RMS Power Analyzer Datalogger	..... \$699
380803-NIST	..... TRMS Power Analyzer Datalogger with NIST Certificate	..... \$804
152340	..... 240VAC Adaptor	..... \$25



Software included to download and store data to a PC



Built-in heavy duty carrying case.

Model 380803 Datalogger

- Built-in Datalogger stores up to 1,012 readings (Single record storage or continuous datalogging)

Model 380801

- Used for data acquisition when connected to a PC

382860

True RMS Power MultiMeter

\$299

Plug device under test into power adaptor cable to display Watts, Amps, Volts, and PF built-in RS232 PC interface

Features:

- Display an extensive combination of measurements including ACV/Hz/dB or Value/Min/Max/ACV
- Large 4000 count display with bargraph plus three sub-displays (all with Data Hold)
- Advanced features include Relative, Average, Compare, Auto-Hold, Offset modes, square wave output signal and 10 Memory locations
- Continuity beeper, Diode, Transistor tests
- CAT II-1000V, CE approved; one year warranty
- Complete with test leads, 3-prong socket/plug power adaptor, Windows® 95/98 compatible datalogging software, Type K temperature probe, 9V battery, and carrying case

Specifications

Function	Range	Resolution	Basic Accuracy %rdg
DC Voltage	400mV, 4V, 40V, 400V, 1000V	100µV	±0.3%
AC Voltage	400mV, 4V, 40V, 400V, 750V	100µV	±0.8%
DC/AC Current	400µA, 4mA, 40mA, 400mA, 4A, 20A	100nA	±1.0% DC; ±1.5% AC
Resistance (Ω)	400, 4k, 40k, 400k, 4M, 40M	0.1kΩ	±0.5%
Capacitance	4nF, 40nF, 400nF, 4µF, 40µF, 400µF	1pF	±2.0%
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 40MHz	1Hz	±0.1%
Temperature	-40 to 2192°F (-40°C to 1200°C)	1°F/°C	±3.0%
Power	4000W (Max 16ACA, 115ACV)	1W	±5.0%
Power Factor	00.00 to 01.00		
Phase-angle (φ)	-90° to 90°		
Signal Output Freq	10, 50, 60, 100, 400, 1010, 2021, 4042, 8084, 10.24kHz		
Output level	CMOS level 2.7-3.3V; Square-Wave Signal		
Dimensions/Weight	7.6x3.4x1.4" (194x87x34.5mm) / 15oz (410g)		

Ordering

382860	..... True RMS Power MultiMeter	..... \$299
382860-NIST	..... True RMS Power MultiMeter with NIST Certificate	..... \$414



Software included to download and store data to a PC.