

## MiniAmp™ Series Clamp-on MultiMeters

Single or Twin display models that offer True RMS, Temperature or  $\mu$ A Current Capabilities

### Features:

#### Twin Display Models MA440 and MA460

- 4000 count LCD display for clamp input and separate 4000 count display for multimeter test lead input
- Unique capability to observe AC Current and any other parameter simultaneously, including Amps+Volts (power), Amps+Ohms, Amps+Temperature (MA460)

#### Single Display Models MA400 and MA420

- 4000 count LCD display
- Model MA420 with True rms Voltage and Current measurements
- Relative zero function

#### Clamp Meter functions - All models

- Autoranging with AC Current, Data Hold and Auto Power Off functions
- Max Hold captures 30ms peaks
- Compact size allows measurements in tight locations
- 1.1" (28mm) jaw size accommodates conductors up to 4/0 AWG

#### MultiMeter functions - All models

- Measure AC/DC Voltage to 600V and Resistance to 40M $\Omega$
- Wide range Capacitance and Frequency tests
- Complete with CAT III test leads, two A76 button batteries (MA400 & MA420), four A76 button batteries (MA440 & MA460), carrying case and temperature probe (MA460)

### Applications:

- HVAC installation and repair
- Flame rod  $\mu$ A current measurements
- Plant maintenance
- Process control
- Electrical testing and repair



CAT III-600V

CAT III-300V,  
CAT II-600V

#### Additional Features Twin Display Models

##### Model MA440:

- Provides AC/DC  $\mu$ A measurements with high 0.1 $\mu$ A resolution — ideal for HVAC applications

##### Model MA460:

- Provides type K thermocouple temperature measurements

#### Additional Features Single Display Models

##### Model MA400:

- Average responding

##### Model MA420:

- True rms responding

Specifications	Range	Resolution	Accuracy
AC Current:	400A	0.01A	$\pm(1.9\%+5d)$
AC/DC $\mu$ A (MA440 only):	1000 $\mu$ A	0.1 $\mu$ A	$\pm(2\%+5d)$ AC $\pm(1.5\%+4d)$ DC
DC Voltage:	600V	0.1mV	$\pm(1.2\%+3d)$
AC Voltage:	600V	1mV	$\pm(1.5\%+5d)$
Resistance:	40M $\Omega$	0.1 $\Omega$	$\pm(1.0\%+4d)$
Capacitance:	4000 $\mu$ F	0.1nF	$\pm(3.5\%+6d)$
Frequency:	5Hz to 50kHz	0.001Hz	$\pm(0.5\%+4d)$
Temperature (MA460 only):	0°F to 573°F (-20°C to 300°C)	1°F/°C	$\pm(2\%+6°F$ or $3^\circ C)$
Diode Test:	0.5mA, <1.6V		
Continuity:	Beeper <20 to 60 $\Omega$		
Power:	Two A76 button batteries (MA400 & MA420) Four A76 button batteries (MA440 & MA460)		
Dimensions:	7.5x2.25x1.25" (190x63x32mm)		
Weight:	0.45lb (187g)		

### Ordering Information:

MA400.....Single Display 400A AC Mini Clamp-on MultiMeter  
 MA400-NIST....MA400 Clamp-on MultiMeter with NIST Certificate  
 MA420.....Single Display 400A AC True rms Mini Clamp-on MultiMeter  
 MA420-NIST....MA420 Clamp-on MultiMeter with NIST Certificate  
 MA440.....Twin Display 400A AC Mini Clamp-on MultiMeter w/  $\mu$ A function  
 MA440-NIST....MA440 with NIST Certificate  
 MA460.....Twin Display 400A AC Mini Clamp-on MultiMeter w/ Temperature  
 MA460-NIST....MA460 with NIST Certificate  
 480172 .....Line Separator 3-prong plug