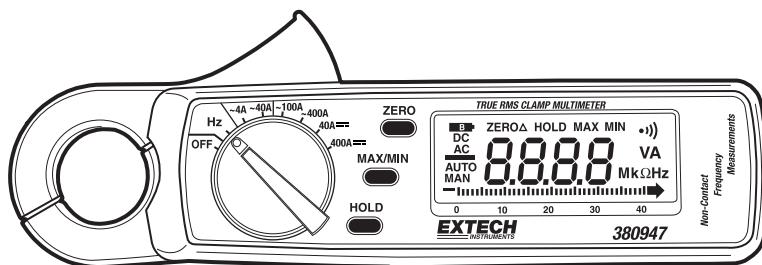


User's Guide

EXTECH
INSTRUMENTS

DC / AC True RMS Clamp Meter

Model 380947



Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website at www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Introduction

Congratulations on your purchase of the Extech 380947 True RMS Clamp Meter. This Clamp meter measures current up to 400A DC/AC and measures Frequency up to 100 kHz. Careful use of this meter will provide years of reliable service.

Safety

1. **NEVER** exceed the specified voltage/current maximum
2. **USE EXTREME CAUTION** when working with high voltages.
3. **NEVER** operate the meter unless the back cover and the battery/fuse door are in place and fastened securely.

International Safety Symbols

	DC Voltage DC Current		Refer to explanation in owners manual
	AC Voltage AC Current		Dangerous voltage risk of electrical shock
	Ground		Double Insulation

Specifications

General Specifications

Display	3-3/4 Digit LCD with 40 segment bargraph
Functions	Current (ACA, DCA) and Frequency (Hz)
Polarity	“-“ indicates negative polarity (positive polarity assumed)
Current sensor	Hall effect
Overload	Display indicates “1___” or “-1___”
DCA zero adjust	One-touch zero key (also used as a Relative function)
Display rate	2 readings/second (20 readings/second for bargraph)
Battery	Two 1.5V AA batteries
Operating temperature	4°F to 122°F (-10°C to 50°C)
Operating Humidity	< 85% RH
Power consumption	10mA DC approx.
Weight	6.2 oz. (190g) including battery
Dimensions	7.2 x 2.5 x 1.4" (183 x 63.6 x 35.6mm) (H x W x D)
Jaw opening	0.9" (23mm)
Standards	IEC 1010 Category III 300V, Category II 600V

Range Specifications

DC Current	Resolution	Accuracy (of rdg + digits)		Overload Protect
40A	10mA	$\pm(1.0\% + 2d)$		400A DC
400A (0 to 150A)	100mA	$\pm(1.0\% + 2d)$		400A DC
400A (150 to 200A)	100mA	$\pm(2.2\% + 2d)$		400A DC
400A (200 to 400A)	100mA	$\pm(4.0\% + 2d)$		400A DC
AC Current	Resolution	50/60Hz	40Hz - 1kHz	Overload Protect
4A (0 to 500mA)	1mA	$\pm(1.5\% + 7d)$	$\pm(2.0\% + 7d)$	400A AC
4A (500mA to 4A)	1mA	$\pm(1.5\% + 3d)$	$\pm(2.0\% + 4d)$	400A AC
40A	10mA	$\pm(1.5\% + 3d)$	$\pm(2.0\% + 4d)$	400A AC
100A (0 to 100A)	100mA	$\pm(1.5\% + 3d)$	$\pm(2.0\% + 4d)$	500A AC
400A (100 to 200A)	100mA	$\pm(2.2\% + 3d)$	$\pm(2.5\% + 4d)$	500A AC
400A (200 to 400A)	100mA	$\pm(4.0\% + 3d)$	$\pm(5.0\% + 4d)$	500A AC
Frequency (Hz)	Resolution	Accuracy	Sensitivity	Overload Protect
40Hz to 250Hz	0.01 to 0.1Hz	$\pm(0.5\% + 2d)$	3.0A	500A AC
250Hz to 10kHz	0.1 to 1Hz	$\pm(0.5\% + 2d)$	0.3A	500A AC