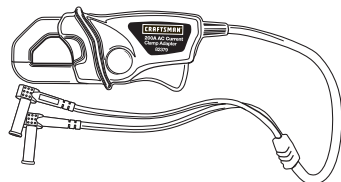


## Owner's Manual

# CRAFTSMAN®

## 200A AC CLAMP-ON MULTIMETER ADAPTOR

MODEL 82379



**CAUTION:** Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

- Safety
- Operation
- Maintenance

© Sears, Roebuck and Co., Hoffman Estates, IL 60179 USA  
www.craftsman.com Version 020708

### ONE YEAR FULL WARRANTY

**CRAFTSMAN ONE YEAR FULL WARRANTY.** If this product fails due to a defect in materials or workmanship within one year from the date of purchase, **RETURN IT TO ANY SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES** for free replacement. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Sears, Roebuck and Co., Hoffman Estates, IL 60179

**For Customer Assistance Call 9am-5 PM (EST)  
Monday through Friday 1-888-326-1006**

### SAFETY

This instrument complies with Class II, Category II 600V, Category III 300V of EN 61010-1 and 61010-2-032 standards.

**Warning!** Do not clamp around conductors with voltages equal or exceeding 600V in Installation Category II (300V in Installation Category III).

**Caution!** Use extreme caution when working near bare conductors or bus bars. Accidental contact can result in electrical shock. Protective materials such as rubber mats and shoes must be used to isolate the user from electrical ground.

**WARNING: USE EXTREME CAUTION.** Improper use of this device can result in injury or death. Follow all safeguards suggested in this manual in addition to the normal safety precautions used in working with electrical circuits. **DO NOT** service this device if you are not qualified to do so

### International Safety Symbols



This symbol adjacent to another symbol, terminal or operating device indicates that the operator must refer to an explanation in the Operating Instructions to avoid personal injury or damage to the meter.



This symbol adjacent to one or more terminals identifies them as being associated with ranges that may, in normal use, be subjected to particularly hazardous voltages.



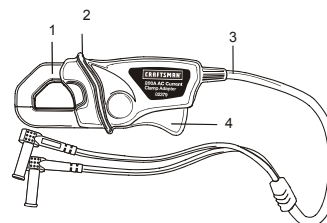
Double Insulation

### Safety Precautions

1. Improper use of this adaptor can cause damage, shock, injury or death. Read and understand this user manual before operating the meter.
2. Inspect the condition of the test leads and the adaptor itself for any damage before operating the meter. Repair any damage before use.
3. Do not exceed the maximum rated input limits.
4. Check the magnetic mating surfaces of the clamp jaws; these should be free of dust, dirt, rust, and other foreign matter.
5. Keep your fingers off the clamp jaws and keep them behind the safety barrier.

### DESCRIPTION

1. Current sense jaw
2. Safety barrier
3. Voltage output leads
4. Clamp trigger



### MAINTENANCE

This multimeter adaptor is designed to provide years of dependable service, if the following care instructions are performed:

1. **KEEP THE ADAPTOR DRY.** If it gets wet, wipe it off.
2. **USE AND STORE THE ADAPTOR IN NORMAL TEMPERATURES.** Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
3. **HANDLE THE ADAPTOR GENTLY AND CAREFULLY.** Dropping it can damage the electronic parts or the case.
4. **KEEP THE ADAPTOR CLEAN.** Wipe the case occasionally with a damp cloth. **DO NOT** use chemicals, cleaning solvents, or detergents.

### OPERATION

1. Connect the Adaptor-to-DMM cable with the RED lead to the "+ V" Terminal and BLACK lead to the "COM" terminal on the DMM. Note that the DMM must offer 0.1mVAC resolution for nominal accuracy.
2. Set the range to the AC mV or V position.
3. Press the Trigger to open the transformer jaws and clamp the jaws around a conductor. Measurements are not to be made with more than one conductor inside the jaw. Jaws must be completely closed around the conductor during measurements. The most accurate readings result from having the conductor nearest to the center of the jaw area.
4. Each mV displayed is equivalent to 1 Amp (i.e.: a reading of 128.5mV = 128.5A)

**Note:** Clamp a single conductor only, do not clamp hot and neutral simultaneously.



**Note:** The clamp jaws must be fully closed for proper measurements. On large conductors or line splitters, make sure there is no gap between the upper and lower jaw.

### SPECIFICATIONS

Measurement Range	0 to 200 Amps AC
Adaptor Output	1mVAC per 1A
Accuracy	±(2.0% of reading + 0.5A) (+ accuracy of indicating device)
AC Bandwidth	40 to 400Hz
Output impedance	< 1kΩ
Jaw size capability	0.62" (16mm)
Operating Conditions	32 to 86°F (0 to 30°C) <90% RH 86 to 104°F (30 to 40°C) <75% RH 104 to 122°F (40 to 500°C) <45% RH
Altitude	7000ft. (2000 meters) maximum
Storage conditions	-22 to 140°F (-30 to 60°C) <90% RH
Temperature Coefficient	0.1 x (specified accuracy) / 1°C (<18°C or > 28°C)
Weight	4.5oz (129g)
Size	4.3 x 1.9 x 1.3" (111 x 50 x 33mm)
Standards	CAT II 600V, CAT III 300V,

**If You Do Not Understand How the Adaptor Works**  
Call our Customer Service Line **1-888-326-1006**