

The Amps Probe Kit contains a Low Amps Probe, a High Amps probe, an interface module, a BNC to Banana adapter, and a storage pouch.

To Measure Low Amps with a DMM

1. Connect the Low Amps Probe to the interface module.
2. Connect the interface module to the multimeter's banana jacks.
3. Select the millivolts range.
4. Close the Jaws on the Low Amps Probe and zero the reading on the DMM by adjusting the zero knob on the interface module.
5. Clamp the Low Amps Probe around the circuit you want to test. 1 Millivolt equals 10 Milliamps. A reading on the Multimeter of 34.4 Millivolts means you are measuring 344 Milliamps.

To Measure High Amps with a DMM

1. Connect the High Amps Probe to the interface module.
2. Connect the interface module to the multimeter's banana jacks
3. Select the millivolts range.
4. Zero the reading on the DMM by adjusting the zero knob on the interface module.
5. Clamp the High Amps Probe around the circuit you want to test. 1 Millivolt equals 1 Amp. A reading on the Multimeter of 123 Millivolts means you are measuring 123 amps.

For additional information or technical assistance, please contact Ferret Instruments at (800) 627-5655 or www.ferretinstruments.com

To View Waveforms on a Lab Scope

1. Connect the Low or High Amps Probe to the interface module.
2. Connect the interface module to one of the LabScope's Channels. Use the BNC or Banana Adapter as needed.
3. Select a volts per division and a time base that will allow you to see the waveform of the circuit under test.
4. Make sure the jaws are closed on the Amp Probe and zero the trace on the LabScope by adjusting the zero knob on the interface module.
5. Clamp the Amps Probe around the circuit you want to test and view the waveform.

Other Instructions

The interface module has two power options. The first time you press the power button the LED will flash indicating the unit will stay on until the battery is dead.

The second time you press the power button, the LED will stay on indicating the unit will automatically power down in 5 minutes.

The third time you press the power button the unit will turn off.

Measures Amperage Draw from 10 milliamps to 600 amps.

Low Amps Probe measures from 10 milliamps to 20 amps AC or DC.

High Amps Probe measures from 1 amp to 600 Amps AC or DC.

Connects to any Digital Multimeter w/Banana Jacks and a millivolt scale.

Connects to any Graphing Multimeter or Labscope w/Banana Jacks or BNC connectors.

Powered by a 9 Volt battery.

3 Year Limited Warranty

www.ferretinstruments.com

Smart
DIAGNOSTICS



SAFETY PRECAUTIONS

- Do not look into the light beam of timing lights. Internal eye burns may be the result. The pain usually starts in a day or two.
- Do not touch rotating engine parts that appear stopped or slowed under the strobe light flashes.
- Always wear safety glasses, or other eye protection when testing vehicles. Be extra careful near batteries and moving parts.
- Battery gas is highly explosive.
 - a. If a battery explodes, flush the acid away from person's skin with generous amounts of water. Follow up with a neutralizing solution of baking soda and then more water. Medical treatment for acid burns may be necessary. Treat clothing, vehicle parts, and equipment similarly. Any acid traces inside equipment must be removed by generous rinsing. Dry off equipment afterwards and place in a warm 50° C (120° F) oven until thoroughly dry.
 - b. Never use a wrench on the ungrounded battery terminal until the grounded one has been disconnected. Contact between the vehicle body metal and the "hot" terminal can cause sparks to ignite gas or even weld tools into a battery short circuit.
 - c. Keep the space around a battery well ventilated.
 - d. Do not make sparks or allow flames near batteries.
- Before working on a vehicle, set the brakes and block the wheels. Beware of automatic parking brake releases.
- Keep your work area well ventilated and free of exhaust. Engine exhaust contains deadly poisons.
- Avoid electrical shocks caused by getting too close to live ignition wires or touching the coil TACH terminal. A person's reaction near a running engine can be more damaging than the shock.
- Keep spark producing devices at least 0.5m (18") above the floor to reduce the hazard of igniting gasoline vapor.
- Do not let test leads wind up in a fan or pulley. Route leads away.
- Remove finger rings and metal wristbands. They can short terminals and become very hot from electric current.

FERRET BRAND LIMITED PRODUCT WARRANTY

FERRET INSTRUMENTS, INC. of Cheboygan Michigan, warrants to the original purchaser that any products manufactured or supplied by Ferret Instruments, Inc. are free from defects in materials and workmanship for a period of three years from date of purchase. Our sole obligation for a product within the above warranties will be to repair or replace, at our option, any defective parts and return the product to the sender within the U.S.A., shipping prepaid, if it is sent to our Repair Department shipping prepaid and accompanied by proof of purchase. The above warranty is extended for the flashtubes in timing lights which are within five years of the date of manufacture.

EXTENDED SERVICE POLICY

A Ferret Instruments product less than five years old according to the date of manufacture, and which is returned with transportation charges prepaid to: Ferret Instruments, Inc., Repair Department, 1310 Higgins Drive, Cheboygan, MI 49721, will be repaired or replaced, at factory option, for a service charge not to exceed 40% of the latest factory suggested user price; plus return transportation charges and insurance. If the product has been discontinued, the nearest equivalent product may be substituted.

This Warranty and Extended Service Policy do not apply to products which have been altered outside the factory; or repaired by anyone other than the factory or its authorized service centers; or which have been damaged from accidents, negligence, or abuse; or have been used differently than described in the printed instructions. Please note that wear and tear on leads and replacement of consumable (paper, oxygen sensors, Nox Sensors, etc.) items, is not covered by warranty.

Ferret Instruments, Inc.'s sole liability and buyer's exclusive remedy is limited to repair or replacement of the product as stated in the Limited Product Warranty and the Extended Service Policy. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND FERRET INSTRUMENTS, INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE SALE OR USE OF THE PRODUCT.

Some states do not allow limitations on the length of implied warranties nor exclusion or limitations of incidental or consequential damages, so that the above limitations and/or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.