User's Manual for the
8845 Passive Power Locator

Cable and Pipe Locators

RYCOM® Instruments, Inc.

Made in the USA

Introduction

Congratulations on the purchase of your new **RYCOM** Passive Power Locator. The **RYCOM** Path Finder Passive locator may be used to detect buried lines carrying the 50 or 60 power cycle. This may included but is not limited to buried power cables, CATV cables, gas and water pipes, and telephone cables

Warning
The 8845 is designed to detect the electromagnetic field emitted from buried metallic utilities. There are energized buried cables, pipes, and utilities this instrument cannot detect. The only way to be sure of the existence, location and depth of buried utilities is to expose the cable or pipe.

The TRANSMITTER applies a tracing signal onto a cable or pipe. The RECEIVER detects the tracing signal. You can locate the path of a buried pipe or cable by following the tracing signal.

	Path Finder 8845
Receiver Unit	001-00105-00
User's Manual	030-00048-00
8 AA-size Batteries	770-00021-00
Case	

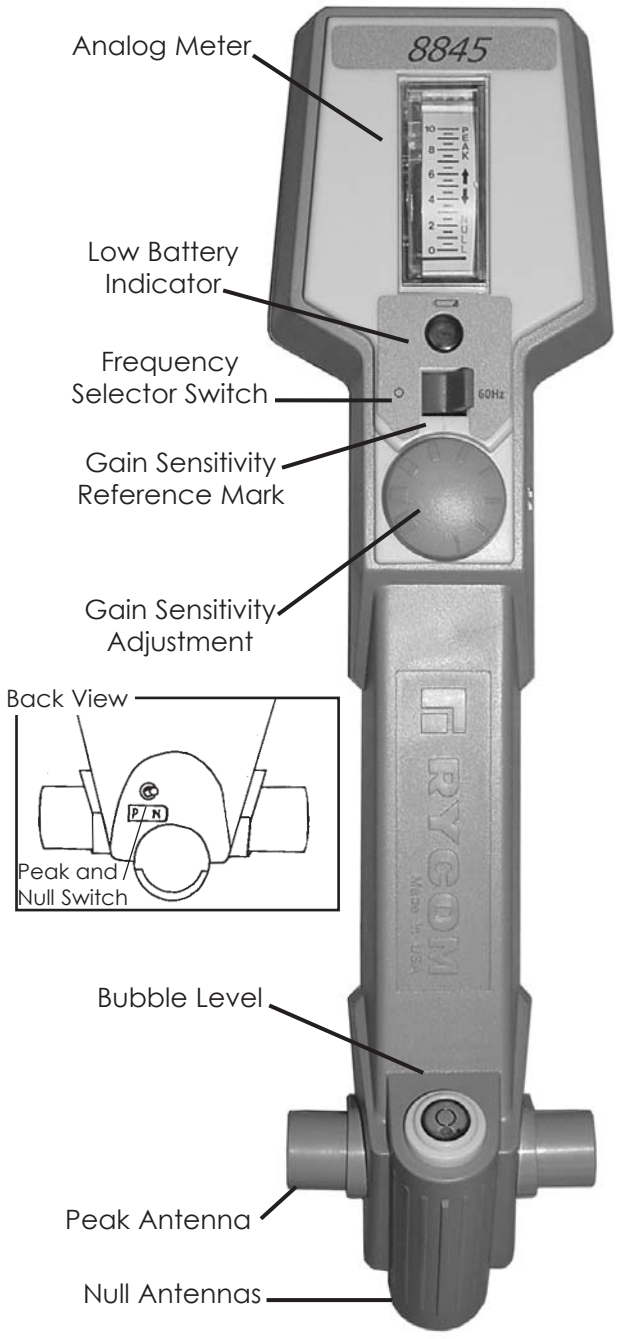
Warranty

This instrument is under warranty for one year from date of delivery against defects in material and workmanship (EXCEPT BATTERIES). We will repair or replace products that prove to be defective during the warranty period.

This warranty is void if, after having received the instrument in good condition, it is subjected to abuse, unauthorized alterations or casual repair.

NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. THE WARRANTY DESCRIBED IN THIS PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WE ARE NOT LIABLE FOR CONSEQUENTIAL DAMAGES.

8845 Receiver Controls and Indicators



Prepare for Use

First, unpack your Path Finder locator. Make sure there is no shipping damage, and all the parts are included: Receiver, 8 AA-Batteries, and Manual.

Next, remove the Receiver from the case, and turn it face-down. Locate the battery compartment on the back of the RECEIVER. Unscrew the battery door and install the eight AA-size batteries as marked on the case.

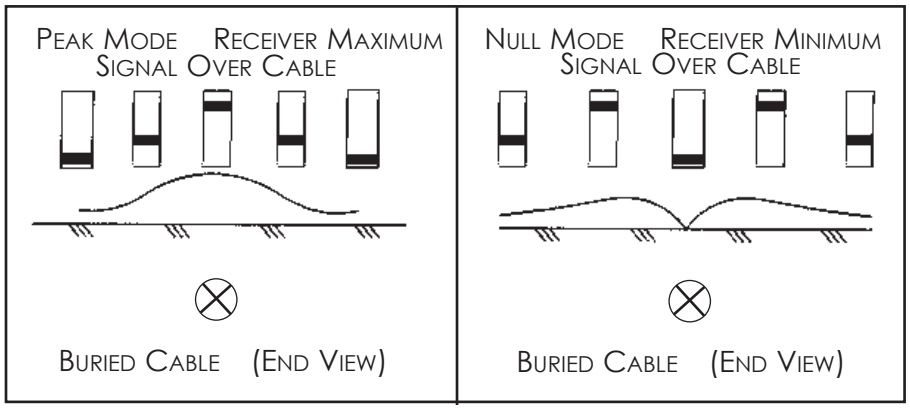
Note: For longer battery life and reliable operation under adverse conditions, use only Duracell alkaline batteries.

Locating the Cable or Pipe

The 8845 RECEIVER is capable of locating power utility frequencies. This is useful for locating underground primary and secondary power utilities. In certain circumstances, this MODE will also locate water pipes, sewer lines, cable television, and telephone. The reason is that common electrical grounds are sometimes found among these various utilities. This method is useful because of its speed and convenience. Start at a known reference point and keep in mind that other conductors in the area may produce this same locating signal.

There are energized cables, pipes, and utilities this instrument may not detect. The absence of signal does not mean an absence of buried utilities.

Select PEAK or NULL locating mode on the back of the Receiver. Peak Mode is preferred.



Hold the RECEIVER so that you can see the meter and controls easily. Flip the RECEIVER **FREQUENCY SELECTOR** switch to the **ON** position. Then adjust the **SENSITIVITY** control to receive a **METER** and audio tone response.

The Path Finders' audio output has a variable tone. This variable tone gives you an indication of the **METER READING**. As the **METER READING** increases, the variable tone pitch increases. As the **METER READING** decreases, the pitch decreases. The variable tone will become silent at any meter setting between 2.0 and 4.5.

Start by swinging the RECEIVER across the path. When the RECEIVER is directly above the cable or pipe, the variable pitch audio tone and the **ANALOG METER** will peak (see Peak Mode Illustration top of page), when using peaking mode. When using nulling mode, the variable pitch audio tone and the **ANALOG METER** will null, when the RECEIVER is directly over the pipe or cable (see Null Mode Illustration top of page).

Adjust the **SENSITIVITY** control knob so the **METER READING** is between 6 and 9.

Next, begin tracing the path by walking at a moderate pace. Continue swinging the RECEIVER left to right as you walk. Follow the peak or null **METER READING** indicator.

When you trace the path, the **METER READING** may slowly fade as you move away from the TRANSMITTER. Readjust the **SENSITIVITY** control to maintain a **METER READING** between 6 and 9. If the **METER READING** suddenly changes in level (higher or lower), you may have found:

a) a junction where the signal divides and goes several directions.
b) a change in depth of the cable or pipe.

When there are sharp changes in a path, the RECEIVER'S null and peak **METER** indicators behave differently than when tracing a straight path. Begin by practicing on a path that you know has turns in it, so that you will be able recognize them.

Factory Service

RYCOM, Instruments, Inc. Products are Made in the USA

The **RYCOM** Path Finder family locators were designed for dependable operation without adjustment or calibration. If, however, your Path Finder is not working properly, return it to the factory for repair. Send it prepaid to:

RYCOM Instruments, Inc.
9351 E. 59th Street
Raytown, MO 64133 USA
Telephone: 816-353-2100 or 1-800-851-7347
Fax: 816-353-5050

We will repair and ship the instrument back within 10 working days, or advise you if the instrument is unrepairable.

**NOTE There is a minimum charge for repair and handling.

When shipping your Path Finder for service, be sure to include:

a) the name, address, and phone number of your contact
b) a brief description of the trouble
c) the return shipping address and department mail address, along with any special shipping instruction
d) or contact us for a "Return for Service Form"

Packing Instruction

Remove all batteries, and place the Receiver in the Transmitter case. Use the original shipping carton, or equivalent sturdy container. Add packing material around all sides of the unit. Seal the shipping container with strong tape. Mark the shipping container:

FRAGILE ELECTRONIC EQUIPMENT

9351 East 59th Street

Raytown, Missouri 64133

(816) 353-2100 or (800) 851-7347

Fax: (816) 353-5050

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