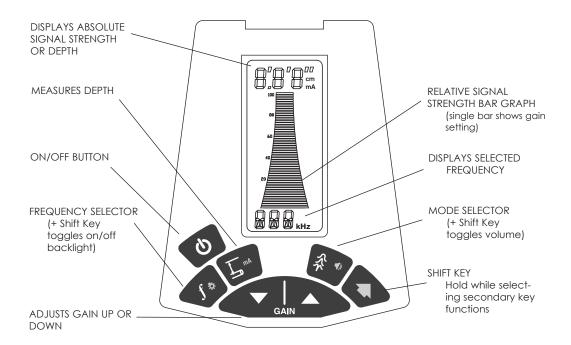


8890 & 8891

Passive Marker Locator User Manual

8890 Controls and Indicators



ON/OFF Button

The unit will load settings from previous usage.

Note: Automatic shut off after 10 minute of no use.

FREQUENCY Button

Toggles through available EMS frequencies.

To change the Depth Measurement from English to Mertic, hold the Depth Key for ten seconds.

MODE Button

Toggle through available mode (model specific) BROAD PEAK.

DEPTH Button

DEPTH function will first momentarily display the depth estimate.

GAIN Button (Up or Down)

Adjusts the gain up or down.

VOLUME (SHIFT Button + **MODE** Button)

Toggle volume through High, Medium, Low and Off.

BACKLIGHT (SHIFT Button + **FREQUENCY** Button)

Hold the SHIFT Key and press the FREQUENCY key to toggle on and off the back light.

LOW BATTERY

The **8890** Locator will indicate low battery condition by displaying "LO BAT" in the three digit Signal Strength Display at the top of the LCD screen.

Introduction Congratulations on the purchase of your new 8890/8891 Locator. The 889X Series Locator is specially designed to detect passive electronic markers.

> The Receiver detects the signal. You can locate the relative position of the buried marker by locating the point of the highest signal.

AWARNING

Electric shock hazard:



- Tool is designed to detect electromagnetic field emitted from buried metallic utilities. There are buried cables, pipes, and utilities this instrument CANNOT
- LOCATING is not an exact science. The only certain way to be sure of the existence, location, or depth of buried utilities is to carefully expose (dig up) the
- De-energize any circuits in or around the work area.
- Do not expose tool to rain or moisture.
- Use tool only for intended purpose as described in this manual

Failure to observe these warnings could result in severe injury or death.

DISCLAIMER OF LIABILITY

RYCOM INSTRUMENTS, INC.® SHALL NOT BE LIABLE TO DISTRIBUTOR, RESELLER, OR ANY OTHER PERSON FOR ANY INCIDENTAL, INDIRECT, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, OR INJURY OF ANY TYPE WHATSOEVER, AND CAUSED DIRECTLY OR INDIRECTLY BY PRODUCTS SOLD OR SUPPLIED BY RYCOM INSTRUMENTS, INC.®.

Prepare for Use

Unpack your new 8890/8891 Locator. Make sure there is no shipping damage and all the parts are included.

Locate the battery compartment on the back of the "head" of the RECEIVER. Open the compartment using a phillips screwdriver. Install the six Duracell® "C" batteries as marked.

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



Locating A Passive Electronic Marker

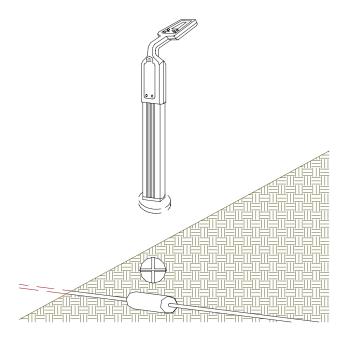
It is ideal to have a general idea of where a marker may be buried. By first locating the utility, the user has a path in witch the marker is buried.

Select desired gain setting. Most markers may be located on lowest gain setting. Use high gain if marker is known to be deep.

Move the Receiver at a medium speed side to side while walking a straight line. Move slowly so a marker may not be missed. The RECEIVER will detect a marker just a few feet away so a grid search may be needed to find a marker.

The Receiver will give a maximum signal when directly over the marker. GAIN adjustment may be needed for optimum sensitivity.

NOTE: IT IS POSSIBLE TO DETECT AN ON-TARGET MARKER.





8890/8891 Locator Specifications

Transmitter

Operating Frequency Antenna Mode	169.8 kHz 145.7 kHz 121.6 kHz 101.4 kHz 83.0 kHz 77.0 kHz	Power Marker Water Marker Sewer Marker Telephone Marker Gas Marker CATV Marker
Audio Indication	variable pitch audio	
Operating Temperature	-4°F to 133° (-20°C to +55°C)	
Battery Type	6 - "C" Duracell alkaline batteries	
Battery Life		
Continuous	18 hours, typical	
Intermittent	40 hours (10 minute auto shut off)	
Dimensions	33" x 3.75" x 9.4" Wheel 11" diameter	
Weight	4 pounds 13 ounces	
Signal Strength	LCD bargraph Absolute Signal Strength readout 0 - 999	
Gain Control	toggle button f settings	or three manual control



Factory Service

If your 8890 Locator is not working properly, first call RYCOM Instruments, Inc. Tech Support at 800-851-7347 for assistance. If the locator is in need of repair, Tech Support will provide instructions for sending your locator to the closest factory approved service center. The instrument will be repaired and shipped back or you will be advise if the instrument is unrepairable.

Note: There is a minimum charge for repair and handling.

Warranty

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

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