

# 8890/8891

## Users Manual Electronic Marker Locator

**RYCOM Instruments**  
9351 East 59th Street  
Raytown, MO 64133

**816.353.2100**  
**800.851.7347**  
**Fax: 816.353.5050**

[www.rycominstruments.com](http://www.rycominstruments.com)  
[rycom@rycominstruments.com](mailto:rycom@rycominstruments.com)

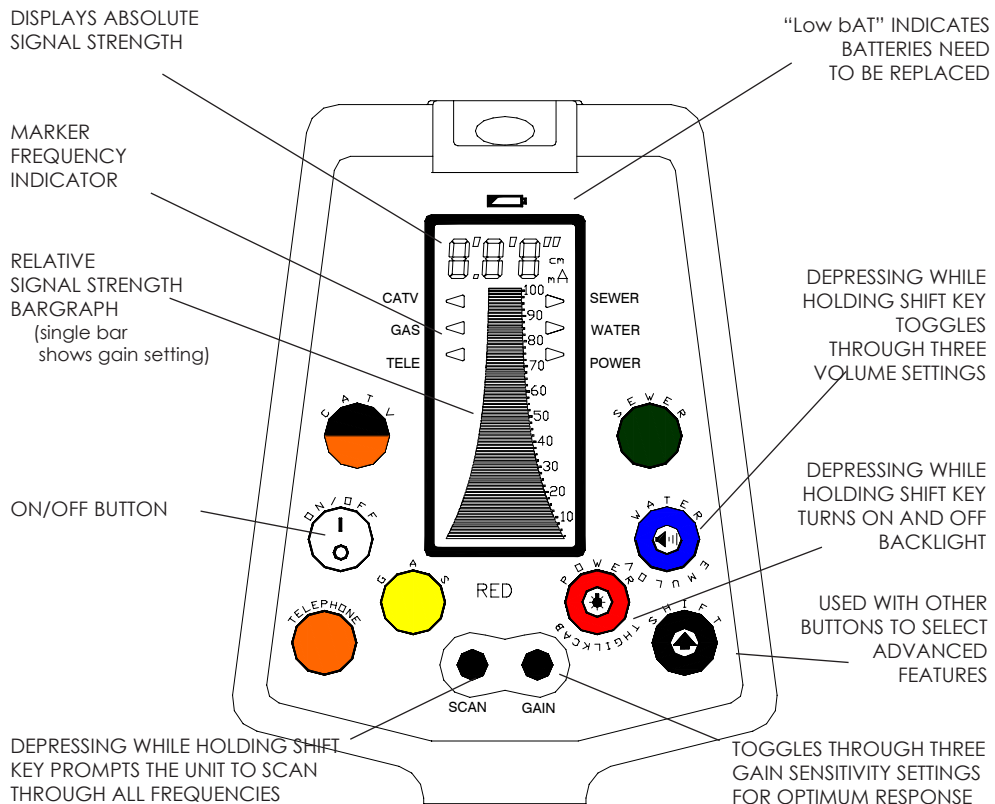


now that the world is wired...

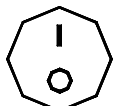
where in the world is your wire?

**Part Number:**  
**030-00070-00**

# 8890 Receiver Controls and Indicators



## 8890 Receiver Controls and Indicators



### ON/OFF Button

Press the ON OFF button to turn the RECEIVER on or off. Upon turning the unit on, it will load the settings from the previous usage.  
Note: Unit will automatically shut off if no keys are pressed within a 10 minute period.



### Color Coded Marker Buttons

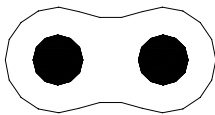
Pressing the button of the utility marker needing located selects the specific marker frequency.



GAIN

### GAIN Button

Pressing the gain button will toggle the unit through the three gain settings; High, Medium and Low.



SCAN

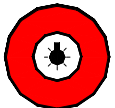
### SHIFT with SCAN Button

Press SCAN while Pressing SHIFT enables the scan feature. This feature takes approximately one minute to perform. The unit will automatically set back to previous selected frequency.



### SHIFT with VOLUME Button

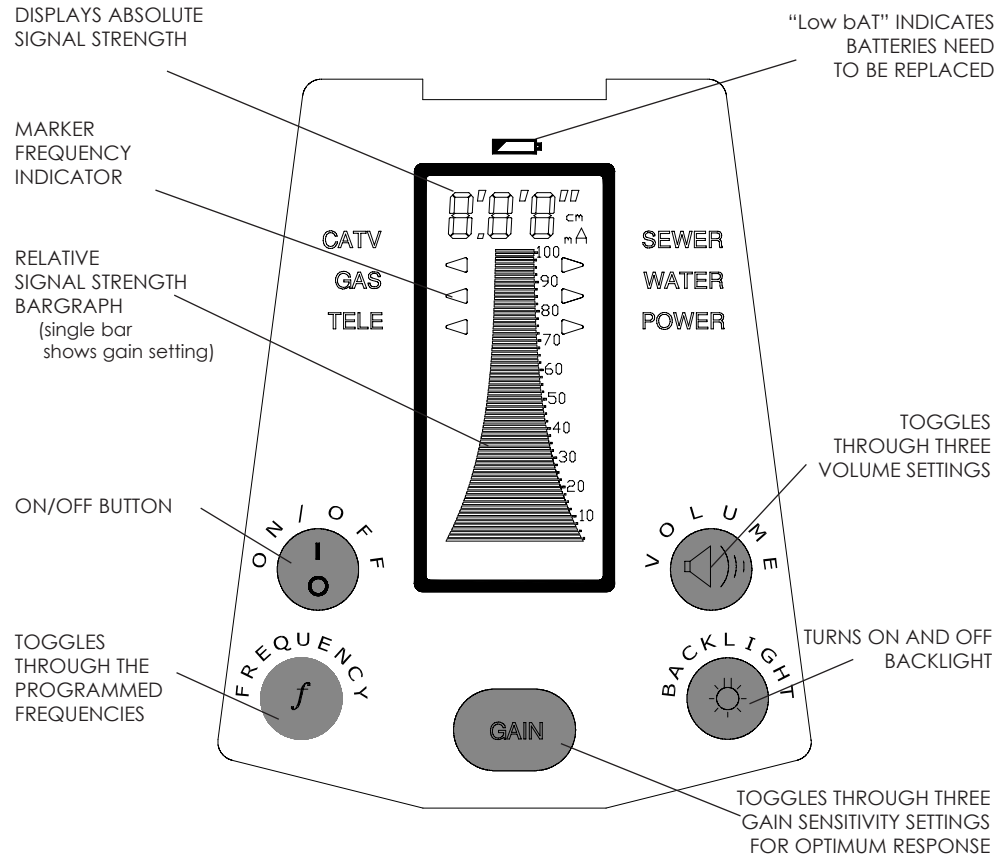
Press VOLUME button to toggle the volume of the device from High, Medium, Low and Off. When this key combo is pressed, the volume level will be toggled through the four volume levels in order.








### SHIFT with BACKLIGHT Button

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

## 8891 Receiver Controls and Indicators



## 8891 Receiver Controls and Indicators

-  **ON/OFF** Button  
Press the ON OFF button to turn the RECEIVER on or off. Upon turning the unit on, it will load the settings from the previous usage.  
Note: Unit will automatically shut off if no keys are pressed within a 10 minute period.
-  **GAIN** Button  
Pressing the gain button will toggle the unit through the three gain settings; High, Medium and Low.
-  **Frequency** Button  
Pressing the frequency button will toggle the unit through the programmed frequencies. Note: Unit may only select programmed frequencies; If an indicator does not appear next to a frequency the unit is not set to detect that marker.
-  **VOLUME** Button  
Press VOLUME button to toggle the volume of the device from High, Medium, Low and Off.
-  **BACKLIGHT** Button  
Toggles on and off the backlight.

## 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 which the marker is buried.

Make sure the wheel is folded down, 90 degrees from the long axis of the unit.

Note: The ORANGE NOB must be pulled out to fold wheel.

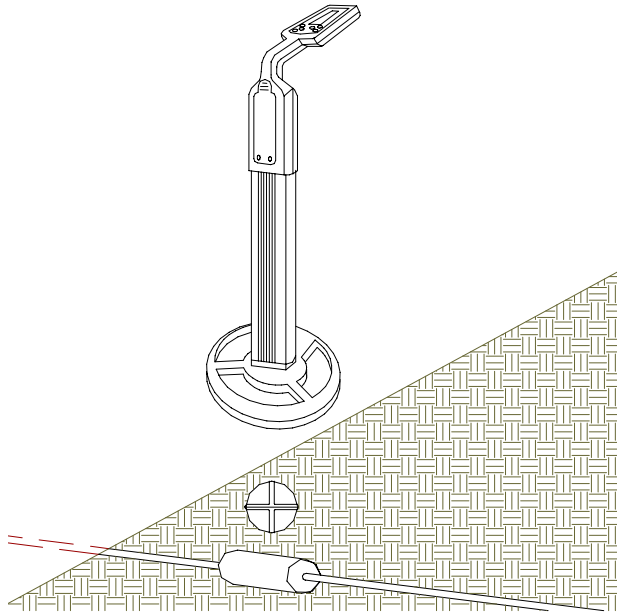
Hold the RECEIVER so that you can see the LCD bargraph and controls easily. Turn the unit on. Select proper marker frequency (buttons are color coded and labeled to proper utility).

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 A NON-TARGET MARKER. TO AVOID MISS-IDENTIFICATION OF BURIED MARKER, USE THE SCAN FEATURE WHILE HOLDING THE RECEIVER OVER DETECTED MARKER. THE UTILITY MARKER DETECT WILL BE THE HIGHEST READING DURING THE SCAN FEATURE**



## 8890/8891 Specifications

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

## Factory Service

The RYCOM 8890 is designed for dependable operation. If, however, your 8890 Series is not working properly, first call the factory to receive an RMA number, then return it to the factory for repair. Send it prepaid to:

**RYCOM Instruments, Inc.**  
**9351 East 59th Street**  
**Raytown, Missouri 64133 USA**  
**816.353.2100 or 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 8890 for service, be sure to include:

- a) 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 instructions
- d) or contact us for a "Return for Service Form"
- e) RMA number

## Packing Instructions

Remove all batteries, and place the unit in 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**

## 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 THE 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.