8831

cable, pipe and fault locator

Made in the USA, **RYCOM**'s 8831 is accurate, rugged, portable and dependable. It is designed to last through years of tough field use.

The 8831 transmits at a powerful 3 watts by using the low frequency of 815Hz. The high output signal at a low frequency maximizes tracing distance and minimizes signal radiation and coupling in crowded areas.

A pioneer in low frequency locators, **RYCOM** has long believed that the most accurate combination for locating, is a low frequency signal and the direct hook-up method. Because the low frequency electromagnetic field is virtually confined to the conductor, the risk of interference is greatly reduced. Under ideal conditions, the 8831 is capable of tracing up to 25 miles. With a larger tracing distance, you save time and costs associated with locating due to reduction of transmitter maneuvering.

In one quick step the transmitter power is matched to the resistance of the cable or pipe being traced. The easy to read meter displays a correct signal match.

The 8831 won't leave the user stranded in the field with dead batteries. The 12 volt, 6.5 amp hour lead acid rechargeable battery locates over 11 continuous hours on a single charge. A discharged battery will recharge over a maximum of 24 hours, but usually less.

The 8831 is available with the choice of either a Rechargeable Battery Pack or a Lantern Battery Pack. Both battery packs can be used interchangeably.

The 37" Full Snooper Probe (Receiver Probe) looks like a walking stick and is just as comfortable. No squatting or "duck walking" is required to heighten sensitivity and accuracy. The highly sensitive receiver converts the electromagnetic signal into audio and visual outputs on the receiver. Fast and precise depth measurements are achieved by using the triangulation method with the receiver.

By combining the powerful 3 watt transmitter with 8831's highly sensitive receiver, the maximum signal distance can be achieved.

By passing the Receiver Probe over the underground conductor, the Probe translates the electromagnetic currents in two ways: audible peak and null tones, and easy to read meter indications.

The AM/FM/OFF switch determines how the audio will be heard. The AM loud-to-soft or FM rise-and-fall changes in pitch through the speaker, or the OFF setting eliminates sound entirely. When the 8831 is used with the headset, the surrounding traffic and noise interference is blocked out.

The Selectable Signal Tone switch locates an energized power cable by flipping the switch to the 50-60Hz position. When using the 50-60Hz position, no transmitter hook-up is required.

When using the Receiver Probe to locate a path, irregular signal level areas will be revealed. On an undamaged sheath, signals become weaker as the user moves farther from the transmitter. On a damaged sheath, however, soil currents are concentrated and will fan out in all directions.

When attaching the optional Ground Return Probe accessory to the receiver, the 8831 is converted into a fault locator.

For convenient storage, a compartment within the transmitter case carries the receiver, headset, cords, ground rod and the optional Flexicoupler. A carrying case is available for both the folding Ground Return Probe and the 37" Receiver Probe.

RYCOM's 8831 Cable Pipe and Fault Locator cost much less than would be expected for a device that has such superb performance and accuracy.

Specifications

transmitter

TONE FREQUENCY ~ 815Hz
TONE IDENTIFIER MODULATION RATE ~ 3.2 ticks/sec
OUTPUT POWER ~ 3 watts, nominal
MAX OPEN CIRCUIT VOLTAGE ~ 400V PK-PK AC
POWER SOURCE ~ 8831-00 uses 12volt, 6.5 amp hr lead acid rechargeable battery 8831-01 uses 6 volt lantern cells
OPERATING TEMPERATURE ~ 14ºF to 131ºF (-10ºC to 55ºC)
SIZE ~ 10.75" x 8" x 7.2"" (27.3 x 20.3 x 18.3cm)
WEIGHT ~ 8831-00 is 12.5lbs (5.67kgs)
8831-01 is 9.3lbs (4.22kgs)

receiver

INPUT FREQUENCY ~ 815Hz
GAIN CONTROL ~ 120dB minimum
SPEAKER OUTPUT ~ FM-frequency range 500 to 5,000Hz, typical
SPEAKER OUTPUT ~ AM-frequency range 2,500Hz internally adjustable
FILTER REJECTION ~ greater than 95dB at 540Hz
greater than 100dB at 60Hz
POWER SOURCE ~ 4- 1.5volt "C" cell
OPERATING TEMPERATURE ~ 14º F to 131ºF (-10ºC to 55ºC)
SIZE ~ 5.6" x 5.3" x 3.3" (14.3 x 13.5 x 8.4)
WEIGHT ~ 2.2lbs (1.0kg)

Warranty ~ One-year warranty from date of delivery against defects in material and workmanship (EXCEPT BATTERIES) on all instruments. This warranty is void if, after having received the instrument in good condition, it is subjected to abuse, unauthorized alteration or casual repair. We will repair or replace products that prove to be defective during warranty period. 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. **Terms ~** Net 30 days, Missouri sales tax charged where applicable. **Shipping & Delivery ~** All orders are FOB Raytown, MO.

Specifications subject to change without prior notice.

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