

# 8000 Series

## Pipe & Cable Locators

**Reliable, Easy-to Use,  
Locators Reduce Your Costs!**  
**Increase your productivity!**  
**Work faster with confidence!**

Metrotech 800 Series Pipe and Cable Locators make locating easy with Left/Right Guidance, Digital Signal Strength, Fully Automated Gain Control, Simultaneous "Peak" and "Null", and Push Button Depth.

These full featured locators provide a short learning curve and reduce operator errors, resulting in a lower cost of ownership.

 **METROTECH**<sup>®</sup>  
*See beneath the surface*

### **810 High Radio Frequency - 83kHz For Insulated/Gasketed Water and Gas Pipe Applications**

- High Frequency Jumps Insulators and Gaskets
- Excellent Inductive Locating, Direct, Clamp
- Use with Sonde

The 810 high radio 83kHz frequency jumps insulators and rubber gaskets often found in water and gas distribution systems. The floodlight quality of high radio signal makes the 810 a superior instrument for inductive locating, and blind or survey locating. The 810 Receiver may also be used with a 83kHz frequency Sonde.



Saves you time - Simultaneous Peak/Null



Shows You the Path - Left/Right Guidance System and Audible Tone

Pinpoints Your Utility and Indicates Strength of Transmitted Signal - Digital Signal Strength

No Manual Gain Adjustments - Fully Automated

Determines Depth - Quick and Easy Push Button Depth

Lightweight, and All Readouts are Line-Of-Sight, Reducing User Fatigue.

### **850 Low Audio Frequency - 9.8kHz For Isolation and Long Distance Cable Applications**

- Excellent Isolation From Adjacent Utilities
- Efficient High Power 2 Watt Transmitter Facilitates Long Distance Locating
- Transmitter Impedance Matching Maximizes Battery Life

The low audio 9.8kHz of the Metrotech 850 "hugs" the conductor and does not "bleed off" onto adjacent utilities in your locate area. If direct transmitter connection is available, the 850 is an excellent instrument for isolating a utility in a congested area. The powerful 2 Watt Transmitter drives the low frequency signal for long distances. The impedance matching feature of the 850 Transmitter matches the signal to the resistance on the conductor, maximizing power output, and conserving battery life. A 9.8kHz Sonde can be used with the 850 Receiver.

# Technical Data



The 810 Pipe and Cable Locator provides versatility for both direct, clamp, and inductive pipe and cable locating.

The powerful 850 Pipe and Cable Locator gives better isolation and longer range tracing of underground pipes and cables in congested areas.

- **Standard Equipment**

The Metrotech 800 Series consists of a Transmitter, Receiver, Conductor Attachments, Ground Rod, Ground Plate, Carrying Case, and Operation Manual.

- **Accessories**

Metroclamps 4290 (2"), 4820 (4"-810), 5120 (4"-850), 4890 (8")  
Headphones (P/N 183045),  
Sondes, 810-SON830, SONH83K,  
850-SON982, SONH9.8K  
Training Videos VHS (P/N 600A073), specify, PAL, NTS

- **Warranty**

One year warranty on parts and labor.



## Transmitter 810

Nominal Output Power	250 mW
Frequency	83.0775 kHz + .002% Crystal controlled for interference resistance
Batteries	6 NEDA 13F Alkaline D Cells

Battery Life	92 hours
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Impedance Matching	
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Dimensions	8"L x 3.25"W x 7.75"H (20.3 x 8.3 x 19.7 cm)
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Weight	3.9 lbs (1.8 kg)
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## 850

Nominal Output Power	0.6W and 2W Output
Frequency	9.82 kHz + .002% Crystal controlled for interference resistance
Batteries	Rechargeable Lead-Acid 6V Charging is by 115V, 60 Hz AC power source (by request), or optional 12V vehicle mount charger.

Battery Life	92 hours
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Impedance Matching	Automatic, no adjustments
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Dimensions	8"L x 4.125"W x 6.75"H (20.3 x 10.5 x 17.2 cm)
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Weight	5.8 lbs (2.6 kg)
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## Receiver 810 & 850

Trace Accuracy	+1 inch from 0-3 ft (91 cm) +3% over 3 ft (91 cm) in depth
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Depth Readout Accuracy	±[5% + 2"] under normal conditions
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Depth Readout Range	To 13 ft (400 cm)
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Sensitivity Control	Automatic, no adjustments
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Batteries	4 NEDA 1604A Alkaline (9V)
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Battery Test	Indicated on Meter
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Battery Life	150 hours
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Temperature Range	0-110°F (-18 - 43°C)
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Dimensions	32.5"L x 7.5"W x 12.5"H
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(Extended Length)	(82.6 x 19.1 x 31.8 cm)
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Weight	4.4 lbs (2.0 kg)
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## Shipping Specifications

### 810

Dimensions	24.25"L x 10.375"W x 17.25"H (61.6 x 26.4 x 43.8 cm)
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Weight	20 lbs (clamp add'l 2 lbs) 9.1 kg (clamp add'l .91 kg)
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### 850

Dimensions	same
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Weight	23 lbs (clamp add'l 2 lbs) 10.4 kg (clamp add'l .91 kg)
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Specifications subject to change without prior notice. Actual performance may be affected by improper signal drive method, concentration of utilities, poor ground conditions such as highly conductive soil, or extremes of temperature. Signal variations on large pipes can also affect accuracy.

This product is covered by US 4387340, US 4520317, EPO 45486 and other US and Foreign Patents pending.

## Service Center, Ordering, and Technical Support Information

### Corporate Headquarters Western United States Service Center

488 Tesman Dr., Sunnyvale, CA 94089  
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Fax: +1.408.734.1415  
www.metrotech.com  
sales@metrotech.com

### Metrotech Eastern United States Service Center

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### Metrotech European Service Center

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**METROTECH**  
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