



ABN 43 064 478 842

➤ 231 osborne avenue clayton south, vic 3169  
PO box 1548, clayton south, vic 3169  
t 03 9265 7400 f 03 9558 0875  
freecall 1800 680 680  
[www.tmgtestequipment.com.au](http://www.tmgtestequipment.com.au)

## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



Click-to-Call  
TMG Now



### Disclaimer:

All trademarks appearing within this PDF are trademarks of their respective owners.

# 800 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®**  
*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	850	0.6W and 2W Output
Frequency	83.0775 kHz + .002% Crystal controlled for interference resistance		9.82 kHz + .002% Crystal controlled for interference resistance
Batteries	6 NEDA 13F Alkaline D Cells		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		92 hours
Impedance Matching			Automatic, no adjustments
Dimensions	8"L x 3.25"W x 7.75"H (20.3 x 8.3 x 19.7 cm)		8"L x 4.125"W x 6.75"H (20.3 x 10.5 x 17.2 cm)
Weight	3.9 lbs (1.8 kg)		5.8 lbs (2.6 kg)

## Receiver 810 & 850

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

## Shipping Specifications

	810	850
Dimensions	24.25"L x 10.375"W x 17.25"H (61.6 x 26.4 x 43.8 cm)	same
Weight	20 lbs (clamp add'l 2 lbs) 9.1 kg (clamp add'l .91 kg)	23 lbs (clamp add'l 2 lbs) 10.4 kg (clamp add'l .91 kg)

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 4520377, EPO 45486 and other US and Foreign Patents pending.

## Service Center, Ordering, and Technical Support Information

### Corporate Headquarters

#### Western United States

#### Service Center

488 Tasman Dr., Sunnyvale, CA 94089

Tel: 1.800.446.3392 (Sales)

Tel: 1.800.638.7682 (Service)

Tel: +1.408.734.1400 (International)

Fax: +1.408.734.1415

www.metrotech.com

sales@metrotech.com

### Metrotech Eastern United States

#### Service Center

1824 Murfreesboro Rd., #104

Nashville, TN 37217

Tel: 1.800.624.6210 (U.S./Canada)

Tel: +1.615.366.7323 (International)

Fax: +1.615.366.9855

### Metrotech European Service Center

Seba Dynatronic GmbH

Dr.-Herbert-Iann-Str. 6

D-96148

Bamberg, Germany

Tel: +49.9544.680

Fax: +49.9544.2273

www.sebadyn.de

service@sebadyn.de



ISO 9001 Certified

**METROTECH**

see beneath the surface