

i5000™ Utility Locating System



Accuracy
Data Utilization
Data Management



Raising the Bar with Metrotech's i5000™ Locating System

Make your job easier, faster and ultimately more productive...

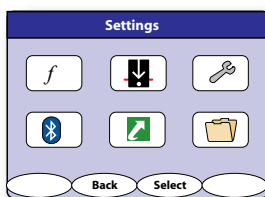
Metrotech's i5000™ Utility Locating System delivers premium features with the high level of performance you want plus the ease of use you can count on. The i5000 offers improved instrument accuracy, providing you the capabilities to see the information captured by the receiver and the transmitter with minimum training. Use this information to raise the bar of your business in underground locating.

ACCURACY

i5000 Receiver Intuitive and Easy to Use

The i5000's bright color display is the first ever on a locating instrument. Intuitive, easy-to-read icons in any light condition distinguish the receiver from the competition. The flexible multi-frequency line locator, includes common active frequencies, plus passive power and radio frequencies.

- Auto or manual gain with live button adjustment
- Color ¼ VGA display, outdoor-readable with auto backlight
- Four softkeys are mapped to functionality described by text on the display
- Cell phone style main menu with configurable shortcut key
- Smart accessory detection allows the receiver to determine what type of accessory (clamps, search coils, etc.) has been plugged in
- Ergonomically designed and lightweight, balanced for all day use



Revolutionary! The i5000 offers the Guidance Compass™ that combines three features to aid Positive Line ID.

Signal Select™

Aids positive utility identification and aids the notification of "ghost" signal as return current path.



Distortion Alert™

Immediately warns operator of magnetic field distortion from hidden utilities.



Forward-Looking Guidance Coil™

Active guidance alerts operator to possible bends and intersection line changes.



Flexible Option

Metrotech offers two receiver unit versions:

- Distance-sensitive Left / Right Guidance™ receiver
- Peak/Null antennae receiver



DATA UTILIZATION

Improved Wireless Data Communication

With Bluetooth® wireless communication technology built-in, the receiver can pair with other Bluetooth-enabled devices for convenient, wire-free, short-range communication.

Image and Audio Enabled Storing Capability

Take pictures from a digital camera or mobile phone and include an audio recording of your location site observations. These files can be transmitted to the i5000 receiver and then stored in the web-based data site, MyLocator™.

Global Positioning System

The optional GPS feature makes a site location reference.



MYLOCATOR™

First in the industry, Metrotech offers Data Utilization and Data Management Tools with the i5000 Locating System.



00237 - New

Addr: 3251 Olcott St.
 City: Santa Clara, CA
 Near:
 Type: Special Project
 RefLat:
 RefLon:
 Due 09/27

MyLocator.METROTECH.COM

Back Active Resp

00237 - Closed

Addr: 3251 Olcott St.
 City: Santa Clara, CA
 Near:
 Type: Special Project
 RefLat:
 RefLon:
 Due 09/27

MyLocator.METROTECH.COM

Back Active Resp

Settings

f [Down Arrow] [Key Icon]

[Bluetooth Icon] [Up Arrow] [Folder Icon]

Back Select

Frequency Usage

Frequency (Hz)	Usage (%)	Avg. Signal Strength (dB)	Avg. Depth (m)	Avg. Current (mA)
50	2	53	42.89	4024.667
60	22	59	56.8	2976.413
100	1	64	48.64	4472.9
120	6	61	69.06	5672.125
140	6	58	9.67	13.306
160	6	76	99.06	704.618
8,192	1	11	0	0
8,840	1	80	89.06	363
9,820	18	66	47.72	43.806
22,000	1	111	68.9	1661
22,252	2	108	24.17	90.25
67,876	1	90	84.88	88
82,888	18	60	28.21	11.865

METROTECH MyLocator

Report: 09/27

Address: 3251 Olcott St.
 City: Santa Clara, CA
 Near:
 Type: Special Project
 RefLat:
 RefLon:
 Due: 09/27

Receiver Measurements

Time	Freq (Hz)	Strength (dB)	Depth (m)	Current (mA)
09:00:00	60	59	56.8	2976.413
09:00:05	60	59	56.8	2976.413
09:00:10	60	59	56.8	2976.413
09:00:15	60	59	56.8	2976.413
09:00:20	60	59	56.8	2976.413
09:00:25	60	59	56.8	2976.413
09:00:30	60	59	56.8	2976.413
09:00:35	60	59	56.8	2976.413
09:00:40	60	59	56.8	2976.413
09:00:45	60	59	56.8	2976.413
09:00:50	60	59	56.8	2976.413
09:00:55	60	59	56.8	2976.413
09:01:00	60	59	56.8	2976.413
09:01:05	60	59	56.8	2976.413
09:01:10	60	59	56.8	2976.413
09:01:15	60	59	56.8	2976.413
09:01:20	60	59	56.8	2976.413
09:01:25	60	59	56.8	2976.413
09:01:30	60	59	56.8	2976.413
09:01:35	60	59	56.8	2976.413
09:01:40	60	59	56.8	2976.413
09:01:45	60	59	56.8	2976.413
09:01:50	60	59	56.8	2976.413
09:01:55	60	59	56.8	2976.413
09:02:00	60	59	56.8	2976.413

DATA MANAGEMENT

Utilization Management
 Allows managers to use MyLocator as a productivity assessment tool.

Locate Features
 The i5000 data management capability adds a new dimension to locating by recording locate results at the receiver.

Ticket Management
 Allows operators to manage schedule and locate order workload. Synchronize work ticket details directly to the receiver.

Asset Management
 Allows users to measure their return on investment of the i5000 instruments.

Statistical Analysis
 Easy to read graphical or table format to quickly identify trends, such as best practices, by tracking commonly-used frequencies, anomalies or missing data, and explore their root causes.

COMPACT

The i5000 Transmitter

Powerfully efficient performance

The i5000 transmitter provides a new Signal Select positive line ID feature. Adjustable up to 10 watts, the transmitter measures line parameters in absolute physical units (volts, ohms, amps, and watts), to give you critical insights into the quality of a complete line circuit. Essential information is easily visible on the transmitter's display screen, including power output and line resistance notifications, which are incorporated into two easily understood graphs. Other enhancements include high capacity Lithium-ion rechargeable battery technology that lower operating costs.

- Battery operated, either by an integrated rechargeable pack or by 6 alkaline D cells
- All common active frequencies between 491 Hz and 166 kHz are supported for direct mode locating.
- Up to 3 frequencies may be activated simultaneously to select the best signal frequency for the locate situation
- Constant current or fixed power output, selectable in a x1, x2, x5, and x10 sequence up to a maximum 1A or 10W, respectively
- Single inductive output at 9.8Khz and 82kHz with a 166 kHz option.
- Auto impedance matching optimizes the output efficiency for line impedances in the range of 5 Ω and 5K Ω
- Sheath fault locate (SFL) output voltage, for use with the A-frame receiver (Optional)
- Auto protection against live power connection to the transmitter
- Auto detection of the connected output accessory, including direct connect leads and inductive clamps
- Monochrome graphical display with 4 hardkeys and 3 softkeys for menu navigation
- Restores last state at power on, including power limits, mode, and system settings



FEATURES

Receiver and Transmitter

- Signal Select™ offers enhanced Positive Line ID
- Forward-Looking Guidance Coil™ alerts for bends and "Ts"
- Distortion Alert™ assists in recognizing signal bleed-over
- Automatic or manual gain mode
- Distance Sensitive Left / Right Guidance™
- Peak/Null Antenna optional replacement for Distance Sensitive Left / Right Guidance™ Antenna
- Auto-archiving of meaningful digital information, including digital media
- Bluetooth® wireless communication enabled in receiver and transmitter
- Bright color 1/4 VGA receiver graphical display
- Broad frequency selection between 491 Hz and 166 kHz
- 10 Watt variable output transmitter for depth and distance locating
- Sheath Fault Locating option for power and telecom cables
- Powerful digital signal processing in both receiver and transmitter

i5000™ Receiver

Active Frequencies	491 Hz, 982 Hz, 8.44 kHz, 9.82 kHz, 35 kHz, 82 kHz, 83kHz,
Passive Frequencies	50 Hz, 60 Hz, 100 Hz, 120 Hz, RF 14–21 kHz. Special extended frequencies available
Depth display accuracy	+/- 5% + 2" under normal field conditions at 0-10 ft.
Depth range	20 ft (600 cm)
Gain Adjustment	Automatic & Manual with dynamic centering
Controls	On/Off, main menu, soft keys
Display indicators	Signal strength, current measurement, depth, frequency, battery condition, Signal Select™, Guidance Compass™, Distortion Alert™, Left/Right Guidance, GPS, Gain, backlight
Line ID	Signal Select™, Guidance Compass™, Distortion Alert™
Display	1/4 VGA Bright Color
Antenna	Distance Sensitive Left/Right Guidance™ or Peel/Null
Communications	Bluetooth® or DB 9-pin RS232 cable
Data Acquisition	GPS, Internal memory 2 MB
Operating Temperature	-4° F to + 122° F (-20° C to + 50° C)
Battery Type	Lithium-Ion Rechargeable
Battery Life	30 hours continuous
Battery Check	Continuous display
Weight	4.9 lb (2.22 kg)
Regulatory Compliance	FCC, CE
Environmental	IP 54

i5000™ Transmitter

Output frequencies	491 Hz, 982 Hz, 8.44 kHz, 9.82 kHz, 35 kHz, 82 kHz, 83kHz, Special extended customizable frequencies available
Output power	Variable to 10 W
Simultaneous Frequency Output	Up to Three
Controls	On/Off, frequency select, measurement units (V, W, I, R), SFL, Signal Select, Variable output adjustment
Indicators	Frequencies, battery charge state, analog output current, numeric output voltage/ current / resistance/ mode/ voltage warning/ Signal Select™ / Audio/ on/off/External power charge
Display	1/8 VGA monochrome
Battery Type	Lithium-Ion Rechargeable
Battery Life	6 – 12 Hrs continuous
Operating Temperature	-4° F to + 122° F (-20° C to + 50° C)
Weight	7 lb (3.18 kg)
Regulatory Compliance	FCC, CE
Environmental	IP 54

* Specifications are subject to change without notice. Not all options and features may be listed here, contact Metrotech for details on specific instrument features and options.

STANDARD EQUIPMENT

- Receiver
- Transmitter
- Hard carrying case
- Smart direct connect leads
- Ground rod
- Battery charging kit for office and automobile
- Operation manual

Contact Metrotech to request a list of available equipment kits.

ACCESSORIES



- Search Coil
- i5000 inductive MetroClamp™ 2" (50 mm) and 4" (100 mm)
- 4" (100 mm) Signal Select™ Clamp
- Sondes
- Soft carrying cases
- Battery chargers
- Communication cables
- Ground rods

Contact Metrotech for a complete list of accessories or visit our website at www.metrotech.com.

OPTIONS

- Sheath Fault Transmitter
- A frame
- Data logging
- GPS antenna
- MyLocator data warehousing
- MyLocator data analysis service
- Alkaline battery holders



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