The Subsite® UtiliGuard Utility Locating System has accuracy-enhancing features you can’t get on other locators. Ambient Interference Measurement (AIM®) technology automatically recommends the best frequency. An available 12-watt transmitter drives signals farther down large, direct-buried utilities. Plus, the UtiliGuard locating system can provide the depth and horizontal distance to the utility. Don’t take a risk on anything else. Get the UtiliGuard locating system.

**KEY FEATURES**

- High-contrast LCD display is visible in all conditions, including direct sunlight.
- Remotely control the transmitter with the receiver. (+)
- Provides horizontal and vertical distance (depth) to the utility to enable users to make accurate locates of obstructed utilities. (+)
- Bluetooth® technology simplifies communication and data transfer to GPS devices. (+, S)
- UtiliGuard is direction enabled, i.e., provides the direction of the current to help you identify the target line. (+, S)
- AIM® scans the surrounding area for noise and recommends the best frequencies for the fastest, most accurate locates. (+)
- Dual-output transmitter connects to two utilities at once, reducing the time required to locate multiple services. (+)
- Ability to change the frequency and power level from the receiver and switch leads between utilities when using dual output. (+)
- 12-watt transmitter drives signals farther down large, direct-buried utilities. (+, S)
- Intuitive operator interface is easy to learn and use, and includes multiple languages. (+, S, B)
- Superior battery life: transmitter 100+ hours (max), receiver 30 hours (max); more than twice as long as the competition’s. (+, S, B)
- Ruggedly built UtiliGuard has an industry-best IP65 rating to ensure excellent performance in dusty, dirty or wet jobsite conditions. (+, S, B)
- Choose from 70 standard frequencies via user-configurable software. (+, S)

**KEY** | UtiliGuard ADV/+ (+)  
| UtiliGuard Standard (S)  
| UtiliGuard Basic (B)
## UTILIGUARD® UTILITY LOCATING SYSTEM SPECIFICATIONS

### RECEIVER U.S. | METRIC
---|---
**DIMENSIONS**<br>Height, max | 27.2 in | 691 mm<br>Length, max | 12.8 in | 325 mm<br>Width, max | 4.8 in | 122 mm<br>Operating weight, max | 4.8 lb | 2.2 kg<br>**PERFORMANCE**<br>Frequency range | 50 Hz-200 kHz<br>Sensitivity | 1µA at 1 m 33 kHz<br>Dynamic range | 145 dB rms/√Hz<br>Selectivity | 117 dB<br>Depth, max autodepth | 20 ft | 6 m<br>Depth, max forced | 40 ft | 12 m<br>Locate accuracy | ±5% of depth<br>Dynamic overload protection | 30 dB (automatic)<br>Depth accuracy¹<br>Line | ±5% to 10 ft | ±5% to 3 m<br>Sonde | ±5% to 10 ft | ±5% to 3 m<br>Passive | ±10% to 10 ft | ±10% to 3 m<br>**FEATURES**<br>Custom frequencies (available option on all models except Basic) | Up to 100 custom frequencies from 256 Hz-83 kHz<br>High-contrast graphical LCD<br>DE direction enabled (optional) | Any frequency from 256 Hz-10 kHz<br>Offset depth (optional) | Measures horizontal and vertical distance to the line<br>AIM® (optional) | Measures interference and recommends best frequency<br>Fault-finding, DE based (optional) | 263 Hz and 526 Hz<br>Power and cathodic protection frequencies (optional) | 60 Hz, 120 Hz, 180 Hz, 300 Hz and 540 Hz or 50 Hz, 100 Hz, 150 Hz, 250 Hz and 450 Hz<br>Language support | 19 user-selectable languages<br>Receiver/transmitter communications (optional) | Remotely control transmitter frequency, power level and more<br>Bluetooth® GPS connectivity (optional) | Capture mapping and locate information<br>Line direction compass with proportional L/R arrow guidance<br>PC-based configuration | Software updates and configuration can be done by user<br>**ENVIRONMENTAL**<br>Operating temperature | -4°F to 122°F | -20°C to 50°C<br>Storage temperature | -25°F to 158°F | -32°C to 70°C<br>Environmental | IP65³<br>**BATTERY**<br>Batteries | 2 D-Cell (LR20) or commercially available NiMH<br>Battery life | 30 hrs continuous, 70 hrs intermittent<br>**WARRANTY**<br>1 year standard, additional 1 year upon registration<br>**REGULATORY COMPLIANCE**<br>FCC, IC, CE, RCM<br>**OPTIMAL PLUG-AND-PLAY ACCESSORIES**<br>Fault probe, EML boot, receiver clamp, stethoscope

### TRANSMITTER U.S. | METRIC
---|---
**DIMENSIONS**<br>Height, max | 10 in | 254 mm<br>Length, max | 12 in | 305 mm<br>Width, max | 7.8 in | 198 mm<br>Operating weight, max | 7.8 lb | 3.5 kg<br>**PERFORMANCE**<br>Frequency range | 256 Hz-200 kHz<br>Power options | 5 or 12 watt<br>Current, max | 500 mA<br>Voltage, max | 65V rms<br>**FEATURES**<br>Custom frequencies (optional) | Up to 100 custom frequencies from 256 Hz-83 kHz<br>High-contrast graphical LCD<br>Language support | 19 user-selectable languages<br>External 12V power connection (optional) | 16 induction frequencies⁴<br>Fault-finding, DE based (optional) | 263 Hz and 526 Hz<br>Induction | 16 induction frequencies<br>Multimeter functions (optional) | Power, current, resistance, and voltage<br>Dual output (optional) | Remotely select active output (must have optional dual output leads)<br>Receiver/transmitter communications (optional) | Transmitter remotely controlled by the receiver<br>**ENVIRONMENTAL**<br>Operating temperature | -4°F to 122°F | -20°C to 50°C<br>Storage temperature | -25°F to 158°F | -32°C to 70°C<br>Environmental | IP65³<br>**BATTERY**<br>Batteries | 10 D-Cell (LR20) or optional Li-ion battery pack<br>Battery life | 100 hrs with alkaline/80 hrs with Li-ion battery pack<br>**WARRANTY**<br>1 year standard, additional 1 year upon registration<br>**REGULATORY COMPLIANCE**<br>FCC, IC, CE, RCM<br>**OPTIMAL PLUG-AND-PLAY ACCESSORIES**<br>Dual-output direct-connect cables, live power adaptor, 5" clamp, 7" clamp, broadband clamp

¹ Locators are calibrated, at factory frequencies, to these tolerances under ideal test conditions. Actual operating conditions may have signal distortions or noise sources, which may result in depth estimate errors.

² Languages supported: Chinese, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Italian, Korean, Latvian, Lithuanian, Polish, Portuguese, Russian, Spanish, Swedish.

³ Environmental rating IP65 definition: Dust tight. No ingress of dust. Protected from low-pressure water jets from any direction.

⁴ Induction frequencies: 8.01 kHz, 8.192 kHz, 8.44 kHz, 9.82 kHz, 29.4 kHz, 32.8 Hz, 38 kHz, 44.6 kHz, 65.5 kHz, 78.1 kHz, 80.4 kHz, 82.5 kHz, 83.1 kHz, 89 kHz, 131 kHz, 200 kHz

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.

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