

SCHONSTEDT®

512 Hz Sonde Models: Large (TM50910) & Small (TM50911)

1. General

Sondes, or transmitting beacons, are battery operated. Each sonde has a particular battery type that applies to specific applications for locating metallic or non-metallic pipes. Sondes in the hertz (Hz) range are beneficial for deeper applications that range from 5 to 16 feet and are capable of signal penetration through dense pipe materials, such as steel, cement and clay tile pipes. The performance of a sonde will be adversely affected if the battery charge is weak.

2. Sonde Detection Using a Pipe & Cable Locator

The receiver of the pipe & cable locator must have a frequency selection that matches the frequency and modulation of the sonde being detected. The following Schonstedt Pipe and Cable Locators are capable of detecting both Schonstedt sonde models:

- **Rex**
- **XTpc+**
- **XTpc-82**
- **XTpc-33**
- **XT-512**
- All Schonstedt Kits (**MPC-Rex, MPC-300, MPC-800, CL-300, PK-500, & PCS-800**)

NOTE: Both the **XTpc-82** and **XTpc-33** with the Passive Cathodic (PC) option selected will have the option to change the selection to enable the detection of a sonde.

3. Search for the Sonde

Due to the nature and strength of the sonde's signal, it is necessary to have a general idea of where the sonde is. Narrow the search area to a circle of several feet that is centered on the sonde.

Once in the surroundings of the sonde, it is important to differentiate whether you are positioned along the axis of the sonde (the direction of the pipe) or off to either side. In the sonde mode, the directional arrows on a locator are not functional; therefore, the signal strength is the only indication available. The signal strength will be "null" (very close to zero) if the receiver is placed on the axis of the sonde with the plane of the sensors perpendicular to it. Rotate the locator's axis and the direction that results in increasing signal strength. Rotate the receiver back and forth, and move in the direction that produces the maximum signal strength. As the receiver gets closer to the sonde, the signal strength increases, and the signal strength reaches the maximum when the receiver is directly over the sonde. The plane of the sensors will be directly parallel to the axis of the sonde at this time. Refer to Figure A on the following page for additional clarification.

SCHONSTEDT®

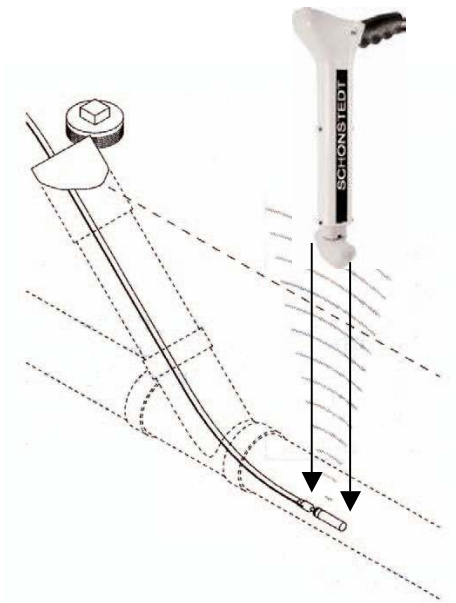


Figure A:

For best results, keep the sonde stationary when locating signal. Ensure receiver and sonde are aligned as shown.

4. Measure the Depth of the Sonde

To measure depth, place the tip of the locator on the ground and press the **DEPTH** button when the signal strength is at a maximum. Orientation (axis) of the locator, as shown in Figure A, is crucial for depth accuracy. To achieve the best depth measurement results, sensors in the locator must be parallel to the axis of the sonde.

5. Specifications & Dimensions

	Large (P/N – TM50910)	Small (P/N - TM50911)
Frequency	512 Hz	512 Hz
Size (In.)	1.53" x 4.13"	0.75" x 2"
Battery	1-AA	1-N
Battery Life	8 hours of continuous use	4-6 hours of continuous use
Adaptors	M10 (10mm) Thread	1/4" x 20 Thread
Depth Range	16' Max (5m) *soil type dependent	3'-5' Max (1.5m) *soil type dependent

6. Maintenance & Storage

The housing of the sonde should be thoroughly washed and dried after each use. Remove the battery and replace the battery cap for storage.

7. Warranty

Sondes shall be provided with a manufacturer's warranty effective for a minimum of six months and are considered consumable items if lost or seriously damaged. Manufacturer shall maintain a comprehensive repair facility to ensure prompt attention to required repairs during and after the warranty period.

Small (TM50911)



Large (P/N TM50910)

