QUALITY
Fisher detectors are renowned for their quality. Each detector is handcrafted in the USA with pride.

PERFORMANCE
The worldwide underground utility industry relies on Fisher. Our instruments are durable, dependable and locate deeper.

REPUTATION
Fisher produced the first patented metal detector in 1931. For over 85 years, the Fisher logo has been a mark of excellence.

SERVICE
Should you have any questions or problems, contact:

FISHER RESEARCH LABS, INC.
1120 Alza Drive, El Paso, Texas 79907
Tel 1-800-685-5050   Fax 915-225-0336
www.fisherlab.com   email: info@fisherlab.com

2-YEAR LIMITED WARRANTY
This Fisher instrument has been rigorously tested before shipment. Fisher Research Laboratory (FRL) warrants this instrument to be free of manufacturing defects for a period of 2 years after the original date of consumer purchase. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state. During the warranty period, FRL may elect to repair or replace a defective instrument, free of charge, return postage excluded.
This warranty excludes headphones, all batteries and damage caused by battery leakage regardless of the type of battery used. Also excluded is damage caused by wear, misuse, alterations and negligent handling or any abuse, which in the opinion of FRL, caused the failure.
This warranty is void in the event any unauthorized person opens or repairs the instrument.

This warranty is in lieu of all other warranties, expressed or implied. FRL does not warrant suitability to specific use. FRL shall in no event be liable for any direct, incidental, consequential or indirect damages.

This warranty is non-transferable.
Maintain proof of purchase. Proof of purchase must accompany warranty claim. Should warranty service become necessary, contact FRL for the name of the nearest authorized Fisher Repair Center or call 915-225-0333 for return authorization. Please include your dated proof of purchase and a complete description of the problem.

NOTE TO CUSTOMERS LOCATED OUTSIDE U.S.A.
This warranty may vary in other countries; check with your distributor for details. Warranty does not cover shipping costs.

Proof of purchase is required to make a claim under this warranty.

According to FCC part 15.21 Changes or Modifications made to this device not expressly approved by the party responsible for compliance could void the users authority to operate this equipment. This device complies with FCC Part 15 Subpart B Section 15.109 Class B.
Not to be used with conductive tracing cables longer than 6.5' (1.98 m)

OPERATION
To use the XLT100, power device on, place headphones over ears, and press transducer tip to an object. It is recommended that the user mute the device when making contact with an object. This will shield the user from the loudness of the “bump” when making contact. The XLT100 amplifies vibrations in the object for listening and displays the average sound/vibration level as a number between 0 and 99.
**OPERATION CHART**

| Power On | Press button (red) for longer than 1 s, then release. |
| Power Off | Press button (red) for longer than 1 s, then release. |
| LCD Display | By default shows sensed vibration level. Shows volume when volume is increased or decreased. Shows filter selection when filter mode is selected. Shows notch selection when notch mode is selected. Shows mute state. Shows battery state. |
| Volume | Increase or decrease volume using up and down buttons in default mode. Level 99 is max volume, 0 is mute or min volume. After 1.5 seconds if neither up nor down button is pressed, display reverts to vibration level. |
| Mute | Toggle mute using mute button |
| Filter | Press mode button in default mode to enter filter selection mode. Use up/down buttons to select filter. 0---40 Hz to 8 kHz, default, (all pass) 1---0.5 kHz center frequency (boost) 2---1 kHz center frequency (boost) 3---2 kHz center frequency (boost) 4---4 kHz center frequency (boost) 5---1 kHz center frequency (cut) 6---2 kHz center frequency (cut) 7---4 kHz center frequency (cut) Press mode button again to exit filter selection mode, and enter notch filter mode. |
| Notch | Press mode button in filter mode to enter notch mode. Use left/right buttons to select filter. 00---No notch filtering 50---50 Hz notch filtering 60---60 Hz notch filtering |
| Back Light | Toggle back light using back light button |

**POWER**

Turn the device on by pressing the power button for approximately 1 second. To power the device off, again press the power button for approximately 1 second and release. When muted, the XLT100 will power off automatically after 5 minutes.

**MODES**

**Level Mode (Default on power-up)**

In this mode, the XLT100 displays the sound/vibration level. No mode indicator is displayed in this mode.

**Volume Mode**

In this mode the user can increase or decrease volume levels. To enter Volume Mode, press the left/right buttons to navigate to Volume Mode, the VOL mode indicator will be displayed. The numeric display displays the current volume level as a number between 0 and 99. After 1.5 seconds with no volume adjustments, the device will automatically revert to Level Mode.

**FILTER MODE**

To enter Filter Mode, press the left/right buttons to navigate to Filter Mode, the FLT mode indicator will be displayed. In Filter Mode, the user can select from 8 different boost/cut equalization filters with center frequencies at 500, 1000, 2000 and 4000 Hz. The boost filters emphasize frequencies around the center frequency. The cut filters will de-emphasize frequencies around the center frequency. Alternatively, the user can select the all-pass filter, filter number zero, which is the default filter. To exit Filter Mode, and enter Notch mode, press the Mode button.

**NOTCH MODE**

To enter Notch Mode, press the Mode button when in Filter Mode, the NCH mode indicator will be displayed. In Notch Mode, the user can select the 50 Hz notch filter, the 60 Hz notch filter, or no notch filter. When using a notch filter, the “notch” frequency will be filtered out. To exit Notch mode and enter Level Mode, press the Mode button.

**MUTE**

The XLT100 sound output can be toggled using the Mute button. The Mute indicator shows when the XLT100 is muted/unmuted.

**BACKLIGHT**

The XLT100 has a back light that can be toggled using the Back Light button.

**BATTERIES**

The XLT100 uses two AA batteries. When charge indicator becomes low, batteries should be replaced. The XLT100 will automatically turn off if the battery voltage becomes too low. To replace old batteries, use a coin or flat-head screw driver to turn the battery door counter clockwise until it comes off. The XLT100 has special foam inserts in the battery compartment these inserts may prevent batteries from sliding out. If this happens, gently tap the bottom of the XLT100 on a flat surface, and batteries will slide out.

**EXTENSION RODS**

Included extension rods (2-13”) May be used in place of standard probe tip when longer reach for contact with facility is required. Extension Rods can also be inserted into probe holes over water line in turf areas.

**SOME POTENTIAL HAZARDS**

As the sensor and extension rods are “pointed”; caution should be used when operating or transporting the device.

Always select the lowest volume setting that is appropriate for each leak sound analysis.

It is recommended to set device to MUTE until positioned to sample for leak noise, then set to OFF or MUTE immediately after each sampling. For safety reasons, do not use this device near traffic or where other dangers are present. This device is to be used with interconnecting cables/headphone cables shorter than three meters.

Fisher Research Laboratory does not warrant suitability to specific use. Fisher Research Laboratory shall in no event be liable for any direct, incidental, consequential or indirect damages.