

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 Laboratory (FKL) 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 warranty excludes and sequences to be adjusted to the original to the

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)

FSHER LABS

Contact Microphone - Leak Detector



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.

Operating Manual

MXLT100 Rev.0 011118

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 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 s if neither up nor down button is pressed, display reverts to vibration level.

Shows filter selection when filter mode is selected. Shows notch selection when notch mode is selected.

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 --- 0.5 kHz center frequency (cut)

7 --- 2 kHz center frequency (cut) 8 --- 4 kHz center frequency (cut)

Press mode button again to exit filter selection mode,

and enter notch filter mode

Press mode button in filter mode to enter notch mode.

Use left/right buttons to select filter. 00 – No notch filtering

00 – No notch filtering 50 – 50 Hz notch filtering

60 – 60 Hz notch filtering

Back Light Toggle back light using back light button

POWER

Notch

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. left/right press the 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 500. 1000. 2000 4000 Hz. The boost filters emphasize around frequencies 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.

