

LT1000 Noise Reducing Metered Amp



TABLE OF CONTENTS

1. Safety and Care
2. LT1000 Noise Reducing Metered Amp
3. Specifications
4. Battery Installation and Type
5. Power On/Off, LED Display
6. Mute
7. Meter Null/Sensitivity/Meter
8. Filter Switch
9. Volume
10. Useful Tips
11. Troubleshooting
12. Warranty



Safety and Care

***PLEASE NOTE: USE CAUTION WHEN PRESSURE TESTING. NEVER INFLATE TO MORE THAN 15 PSI. DO NOT STAND IN FRONT OR ABOVE A COMPRESSION PLUG OR ANY PLUG WHEN UNDER PRESSURE.

***PLEASE NOTE: IT IS EXTREMELY IMPORTANT TO ALWAYS TURN DOWN THE VOLUME, REMOVE HEADPHONES OR USE MUTE FUNCTION ON LT1000 WHEN MOVING EITHER THE **POOL SCOPE™**, **PIPE MIC™**, **DECKPLATE**, **SOILPROBE**, **SLIDE MIC OR ANY COMPONENT** FROM ONE LOCATION TO ANOTHER. FAILURE TO DO SO CAN CAUSE SERIOUS HEARING INJURY OR HEARING LOSS.

***AVOID STORING CABLES WITH TANGLES OR KNOTS. ALWAYS STORE CABLES IN A LOOSELY WRAPPED COIL. PLEASE USE EXTREME CARE AND KEEP THIS MANUAL HANDY FOR ALL USERS.

***LOWERING THE **POOL SCOPE™** OR THE **PIPE MIC™** TO THE BOTTOM OF A POOL AND DRAGGING ALONG THE POOL FLOOR WILL NOT DAMAGE THE UNIT.

***LEAKTRONICS COMPONENTS ARE DURABLE UNITS THAT WHEN TREATED WITH CARE WILL LAST FOR MANY YEARS. EACH UNIT IS HAND BUILT IN THE U.S.A. WHILE ALL COMPONENTS ARE MADE TO USE IN HARSH ENVIRONMENTS, THE HEADPHONE, AMP OR BODY OF THE VIDEO SCOPE CAN NEVER BE SUBMERGED. DOING SO WILL VOID THE WARRANTY.

***ALL PRODUCTS INCLUDING THE **LT1000™ AMPLIFIER**, **POOL SCOPE™** AND THE **PIPE MIC™** SHOULD BE WIPED DOWN WITH A DRY RAG BEFORE STORING.

Important Information and Introduction for the LT1000™ Noise Reducing Metered Amp (Requires 2 AA batteries)

Thank you for purchasing your new LT1000. The only state of the art amp made specifically for the leak detection industry. The LT1000 can be used in conjunction with the **SLIDE MIC™, POOL SCOPE™, DECKPLATE™, PIPE MIC™, LISTENING DISC™ AND SOIL PROBE™.**

Specifications:

Input

- *Connector:* XLR Female Unbalanced
- *Noise:* EIN better than -107 dBV.
- *Input Impedance:* 3.3k Ω nom.
- *Plug-In-Power:* 12V maximum via 4.7k Ω resistor.
- *Filter Switch:* Filter capabilities below 700Hz.
- *Compatible Accessories:* LeakTronics – [PipeMic](#), [SlideMic](#), [Soil Probe](#), Listening Disc, [Flash](#), [Pool Scope](#), [DeckPlate](#)

Headphone Output

- *Connector:* 3.5mm
- *Gain:* -inf to 66dBV nom.
- *Output impedance:* 41.7 Ω .
- *Distortion:* 0.1% no load, 2% at full load.
- *Mute Switch:* Attenuation better than 60 dB when switch is ON.

Auxiliary Output

- *Connector:* 2.5mm
- *Gain:* 30 dBV constant.

Meter

- *Sense Switch:* Select high sensitivity (10:1 power ratio) or low sensitivity (1000:1 power ratio).
- *Meter Null:* Set needle to center of meter to gauge baseline noise.
- *Sensitivity:* -80 dBV.

Power

- *Batteries:* 2x AA battery.
- *Minimum voltage:* 2.25V.
- *Run Time:* Better than 8 hours.
- *Change batteries with #2 Phillips screwdriver*

*****PLEASE NOTE: Mute button MUST be in on position (up) when powering LT1000 amplifier on.**

Battery installation and type:

We highly recommend using high quality alkaline battery, Energizer max or Duracell Coppertop are recommended. To install battery, remove one set screw and pivot door open by loosening other screw. Hold amp upside down, tap lightly and battery holder should pop out. If it does not come out easily, grab with fingers and edge it out, being careful not to pull too hard on two wire leads which attach battery compartment to amp. Using a flat head screwdriver, pop batteries out of holder and replace properly as marked. Gently push battery compartment back into amp, DO NOT FORCE IT. Pivot battery door closed and retighten screws.

Power ON/OFF, LED display:

Power ON & OFF is a simple toggle switch. Up is power on, down is power off. The LED will light up when amp is turned on and will flash when battery power is low. When battery power is very low light will go off, however amp will work. At this point, battery must be replaced as soon as possible.

Mute button makes it easy to go from on location to another without having to adjust volume or meter null. By placing the mute toggle switch in the up position, all sound will be muted out, until it is switched off (put in the down position).

Meter Null / Sensitivity / Meter

Meter null is an adjustment knob which is used to get a baseline for background noise. In order to use properly, with the sensitivity switch down, choose the listening device, start listening and watch the meter to see if there is any background noise. A 100 reading indicates that what you're hearing is inundated with background noise, or you're hovering over the leak itself. Starting with the meter null notch facing up, turn the null to the left to establish a noise baseline (low). You can then turn the meter to the right to

LEAKTRONICS

ELECTRONIC LEAK DETECTION EQUIPMENT



get a noise baseline (high). Turning the sensitivity switch on (up) will allow for a higher and lower range.

Filter Switch (UP is on, DOWN is off)

By using the Filter Switch you are able to filter many different background noises. Using the equipment as shown in previous pages, turning on the switch will dim out many different kinds of background noises, traffic, lawn equipment, a/c units, etc.

Volume

Turn to the right to increase volume, turn to left to decrease. Always be sure to turn the volume on the amplifier to the left (lowest setting) prior to each use or to powering on.

USEFUL TIPS: The LT1000 comes with 2 round rings located on either side to be used with the strap (included). It is important to use this feature when using around construction sites and wet locations to avoid dropping and becoming damaged. Always carry a supply of fresh batteries. The Pool Scope™ and Pipe Mic™ has certain voltage requirements. Once the batteries fall below the required voltage, the signal to the headphones will cut out intermittently and/or distort. This is an indication that the batteries should be replaced. All troubleshooting should begin by replacing batteries with new, high quality alkaline batteries. If using noise reducing headphones, always keep replacement batteries. As the batteries in noise reducing headphones (such as Bose or JBL) expire, the signal heard will be intermittent and distorted.

Troubleshooting

In the case that the pool scope or pipe mic begin to not function properly or if you experience problems, always replace the battery in the amp with a new high quality AA batteries. If you are using noise canceling headphones always replace with new batteries if you begin to experience problems. As the batteries power fades, the signal will become intermittent and subject to interference. New batteries will solve the problem. If problems persist, test the unit with a new or another set of headphones. If a different set of headphones corrects the problem, then the headphones or headphone cable are faulty. Replace headphones. If the problem continues after replacing the headphones, contact LeakTronics for assistance.

Warranty



LeakTronics warrantys it's products from electrical failure or defects in workmanship for a period of two years following the date of purchase. Warranty claims or repairs can be made directly through LeakTronics. Shipping costs to LeakTronics are the responsibility of the user.