

# Digital Leak Detector (DLD) Guide

## DLD Quick Reference Guide

This quick reference guide provides at-a-glance information for operating the Digital Leak Detector.

### DLD Operation



#### Listen Button

Press **Listen**. The DLD audio processor turns on and listens for sound from the accelerometer.

#### Volume Button

Press **Volume**. Volume level range is 1 to 29. (Default is 15.) To select the desired volume:

- Press once to increase the sound by one step.
- Hold down the Volume button to increase DLD volume to the desired level.

#### Power Management

The DLD automatically turns off if a button is not pressed for 90 seconds.

#### Filters Button

Press the **Filters** button to select the desired precision filter setting:

- **SEr** Service lines
- **Con** Hydrants, valves, etc.
- **SUR** Survey work (default)
- **OPn** No filter settings
- **Gnd** Ground listening all surfaces (asphalt, soil, etc.)



DLD Ground Listening Stick Assembly

#### DLD Settings

Setting	Frequency (Hz)
Open	100 - 1800
Ground	100 - 400
Service	250 - 800
Contact	300 - 1800
Survey	150 - 750



DLD Ground Spike/Probe Assembly

#### Leak Analysis

While listening, the LCD shows the Leak Analysis number (the detected leak sound level).



Pressing **Listen** again, resets the Leak Analysis number.

### DLD Audio Processor Connections



1. Headphone Jack



2. Accelerometer

3. Battery door (requires 2 AA alkaline batteries)

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### Setup

- Turn on the DLD by pressing the **“Listen”** Button; this button also acts as the trigger to stop listening while moving the Ground Mic.
- Press the **“Filters”** Button until the desired setting is reached for the type of listening application.
  - **SEr** For Service Lines
  - **Con** Hydrants, Valves, etc.
  - **SUr** For Survey Work (Default)
  - **OPn** No Filter Settings
  - **Gnd** For All Surfaces (Asphalt, Soil, etc.)
- Press the **“Volume”** Button to set your sound level (From 1-29)
  - A level between 10 and 15 is suggested (15 is the Default)
- Once all desired settings have been reached begin listening for the leak by using the following techniques.

### Pinpoint

- Place the Ground Mic on the surface and wait for the Leak Analysis Number to settle on a minimum reading. **NOTE:** While doing this the DLD Audio Processor is filtering out background noise. (In noisy areas this can take up to 10 seconds.)
- Press the **“Listen”** Button again to stop listening and move to the next location.
- Press the **“Listen”** Button again to resume your search and wait for the Leak Analysis Number to settle on a minimum reading.
- Continue this procedure along the water pipe until the Leak Analysis Number reaches a maximum reading at one location.  
**This Pinpoints the Leak.**
- **NOTE:** If possible, turn off the water feeding the area and repeat the procedure. If the Leak Analysis Number **does not** return to the previous maximum reading in the same location it is because the water has been turned off and the leak has stopped.
- **Congratulations, you have found the location of the leak.**



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