

技术咨询和询价:010-68940148

# LC-5000 Leak Noise Correlator

Compact and Light-Weight. The Main Processor Unit, weighing less than 5 lb., can easily be carried all day The Main Processor Unit displays up to 6 Correlations on one screen. User can easily drill into individual correlation from touch screen.



# Ruggedly Built & Weather-Tight

The Main Processor Unit and the Transmitter Sensors can operate in rain storms, sub-zero temperatures and direct sun for hours.

## Rechargeable Batteries

Runs all day on Lithium Ion Batteries.

## High Sensitivity Transmitting Sensors Standard

The new LC-5000 Transmitting Sensors are very sensitive, small in diameter, and totally submersible. 4 times the resolution of its predecessor the LC-2500.

# Easy To Set Up & Run – 3 Steps & You Are On Your Way

Input pipe materials, diameters, and lengths by simply selecting them in the program menus. Automatic functions can do the rest.



# Easy To Set Up & Run

 MAIN CORRELATION SCREEN, is the "home page" where every correlation begins. Icons at the bottom relay signal & battery strength.



In PIPE DATA SCREEN, user enters Material, Diameter & Lengths from the easy touch screen menu.



In FILTER SCREEN, user can adjust High & Low-Pass Filter ranges & adjust Notch Filter.



In TRANSMITTER SENSOR SETTINGS, the user can program & send settings to all units or select individual units for Relay or Relay & Pre-Amp Mode.



In PRE-AMPLIFIER / TRANSMITTER MODE, user has options for programming as Transmitters, Relays, Transmitter / Relays or Logger Mode for overnight or Short Term Deployment.



MENU SCREEN, is where user selects various functions like Data processing, Logger data retrieval, Equipment seting as well as FFT & White noise features.

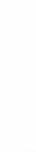
# Powerful Transmitter with Radios That Go Over Hills and Around Buildings



### Pre-amp / Transmitter

"hear" the leak sounds at pipe locations and transmit them to the main processor.

aviation-grade stereo headphones are standard.





Sensors standard for all pipe materials.







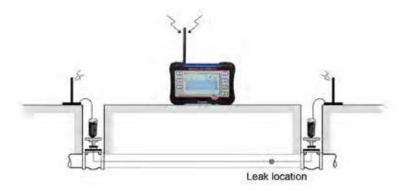




Deploying all 4 Transmitting Sensors allows for up to 6 correlations on Main Unit main screen.



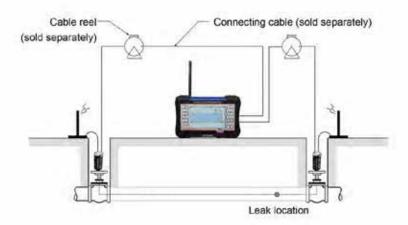
### (1) Radio mode



## (2) Cable mode

Cable mode is used when radio communication cannot be established between the leak detector and the pre-amplifiers due to interference from buildings or other radio stations etc.

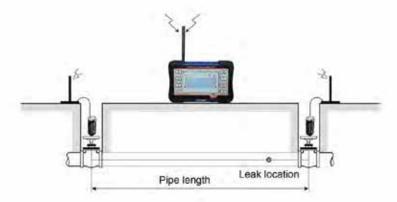
Normally, leak detection is done in radio mode as shown in (1) above.



# 4-2 Example of Detecting a Leak in a Pipe

This section explains how to perform leak detection for the pipe shown below.

In this example, it is assumed that the water leaks from a certain location in the pipe. The pre-amplifiers detect the leak noise and send the signals to the main unit.





### The LC-5000 System Includes:

- LC-5000 Main Processor Unit
- 2 or 4 Transmitting Integrated Sensors
- 6-inch Antenna Extensions
- 4 Pedestals for Transmitting Sensors
- Headphones (see inside) & Battery Recharging Cables
- Instruction Manual and SDHC Card
- "Heavy Duty" Composite Carrying Case

#### Specifications

#### Main Processor Unit

. Operating Temperature Range

Applicable Standard

External Dimensions Weight

Saftery

Condessus Operating Time

Minimum Operating Voltage

Input

Display

Operation

Td Ronge

Time Resolution

Filter Range

North Filter

Auto Fither

Clara Memory

FFT Mandey

Sound Memory

External Interface

10 to 140°F

PS2 (weather tight)

10.7 inches (W) x 7.0 inches (D) x 3.2 inches (H) Approx. 4.8 fb. (with batteries)

Lithium (on Decharquister)

8 hours minimum (at 20°C, backlight OFF)

4.2V

Radio wt or Cable v2

7-inch TFT LCD with touch screen

Polarity correlation

±50ms, ±100ms, d200ms, ±400ms, ±800ms, ±1600ms, 3200ms or automatic setting

25 μs (in ±50ms range), 50 μs (in ±100ms range),

100 us (in ±200ms range), 200 us (in ±400ms range).

400 us (in ±800ms range); 800 us (in ±1500ms range); THRU, 80Hz to 5,000Hz (4 low and 4 high)

OFF, 50Hz, 60Hz

Automatically selected from PFT operation

100 correlations

1kHz, 2.5kHz, 5kHz (common to both channels)

For 16 seconds

Antenna, Headphone, Power Switch, Cablo, RS-202C

#### **Optional Accessories:**

- Externel Sensors w/10-foot Cable
- Rechargeable Spare Battery for Main Unit

## **Specifications:**

#### Red and Blue Pre-Amplifiers

Operating Temperature Flange :13 to 140°F P68 (veather light)

Applicable Standard

External Dimensions

Weight

Battery

Continuous Operating Time

Minimum Operating Voltage

Input Input Frequency Range

Input Sensitvity Bignal to Noise Ratio

Radio Communication System

Output Frequency Modelation

Outout Power

Clutput Impediance

#### Sensors

Operator: Modes

Sensitivity Settings Filter Setting Modes

Recording

GPS Function

· Weight

Correlation / Relay / Logger / Relay+Correlation

2.0 (1 to 20) Steps Manual & Auto

Common! Treougn

3.14 inches (D) x 7.2 inches (Fr)

10 hours minimum (at 20°C, backlight OFF)

20Hz to SkHz (at THRU filter setting)

100Hz to SKHz (at STD filter setting)

Approx. 5.3 b. (with batteries)

Lithium Ion (incharpsoors)

UHF under approved freq.

Direct frequency modulation

50 miles V. max.

0.5W (500mW)

35dB, min.

500

Audio signal recording

(300 Seconds, logger mode only)

Transmit position coordinates & elevation

to the Main Unit

22 bs

Manufactured by:



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