FUJI LEAK NOISE CORRELATOR

LC-2500

ADVANCED HIGH-SPEED DIGITAL PROCESSING AND STURDY COMPOSITION WITH THE EASY OPERATION!

The Leak Noise Correlator LC-2500 provides a quick solution by pinpointing a location of a leak on all type of pipe.

Instruments for the location of underground utilities and water leaks.

FUJI TECOM INC.

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The LC-2500 system feafures

- High-speed processing by 24 bits Digital Signal Processor (DSP).
- High impact and vibration resistant.
- Large LCD display.
- Language function.
  Furnishing in some other languages is possible besides English.
- Self-checking function.
  When the main unit is powered on, the main unit automatically checks battery power, signal received, and etc.
- Leak noise frequency analyzing function.
  Analyzing a leak noise frequency with FFT function.
- Variety of frequency filter setting.
- Leak noise recording function.
  The main unit is able to record a leak sound received by both pre-amplifiers.
- Noise evaluation function.
  To evaluate the detected noises by tri-level ranking.
- Either dry cell battery or rechargeable battery is available.

The LC-2500 system includes :-

① LC-2500 main unit 1
② Pre-amplifier (Blue and Red) 2
③ Pick-up sensor 2
④ Stereo headphones 1
⑤ PC connecting cable 1
⑥ Sensor connecting adapter 2
- Shoulder belt for main unit 1
- Waist belt for main unit 1
- Aluminum carrying case 1
- English operation manual 1

Optional accessories consist of.-

- Cable dram
- Cable dram connecting cable
- Charger with rechargeable battery
- Hydrophone sensor

The LC-2500 system specifications

● Specifications of Main Unit

Operation temperature range	: -20 to 50℃
Applicable standard	: IP52
External dimensions	: 197mm (W) x 100mm (D) x 250mm (H)
Weight	: Approx. 3.1kg (including batteries)
Battery	: LR20 x 4 (DC 6V)
Continuous operating time	: 8h, min.(at 20℃)
Minimum operating voltage	: 4.2V
Input	: Radio or Cable
Display	: Dot matrix LCD
Operation	: Polarity correlation
Td range	: ±50 ms, ±100ms, ±200ms, ±400ms, ±800ms, ±1600ms or automatic setting
Time resolution	: 25μs (in±50ms range), 50μs (in±100ms range) 100μs (in±200ms range), 200μs (in±400ms range) 400μs (in±800ms range), 800μs (in±1600ms range)
Filter range	: THRU, 80Hz to 5,000Hz
Notch filter	: OFF, 50Hz, 60Hz
Auto filter	: Automatically selected according to the result of FFT operation
Data memory	: 100 data sets
FFT monitor	: 1kHz, 2.5kHz, 5kHz (common to both channels)
Sound memory	: For 16-second
External interface	: RS-232C

● Specifications of Pre-amplifier

Operation temperature range	: -20 to 50℃
Applicable standard	: IP52
External dimensions	: 150mm (W) x 110mm (D) x 240mm (H)
Weight	: Approx. 2.85kg (including batteries)
Battery	: LR20 x 6 (DC 9V)
Continuous operating time	: 8h, min.(at 20℃)
Minimum operating voltage	: 6.0V
Input	
Input frequency range	: 0.1Hz to 5kHz (at THRU filter setting) 100Hz to 5kHz (at STD filter setting)
Input sensitivity	: 50μV, max.
Signal to noise ratio	: 35dB, min.
Radio communication system	
Output frequency	: UHF under a radio approval
Modulation	: Direct frequency modulation
Output power	: 0.5W (500mW)
Output impedance	: 50Ω

● Specifications of Pick-up sensor

Type	: Piezoelectric pick-up senser
Voltage sensitivity	: 2.5V/g
Applicable standard	: IP68
Drop resistance	: 1m (asphalt)
External dimensions	: φ30mm x 130mm (H)
Weight	: 0.42kg
Power supply voltage	: 5V
Power supply system	: 3-wire
Output impedance	: 100Ω , max.

We reserve the right to change specifications without prior notice.

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