FUJI NON-METALLIC PIPE LOCATOR

NPL-100

Patent No.855951

The new NPL-100 non-metallic pipe locator is a further developed version of the PL-130 well-reputed in the water supply industry and has the automatic adjustment function for tuning in a resonance frequency of each pipe.

Because of the unique principle, the NPL-100 can locate not only the non-metallic pipes but also the metallic pipes including the metallic pipes with insulating joints.

Instruments for the location of underground utilities and water leaks.

FUJI TECOM INC.

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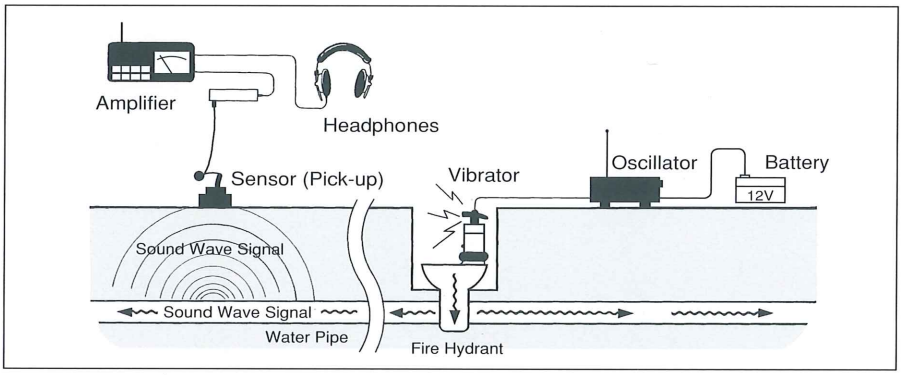
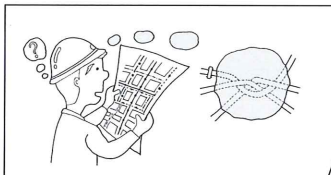
PRINCIPLE

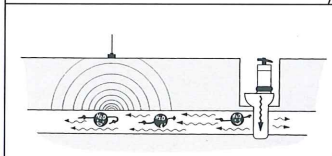
As shown by the following figure, the sound wave signal is transmitted into the pressured water inside of the buried pipe from the firehydrant by the vibrator of NPL-100 locator and radially reaches the ground surface.
The sensor of NPL-100 locator catches the sound wave signal on the ground surface and the receiver amplifies for operating the large indicator meter and headphones.



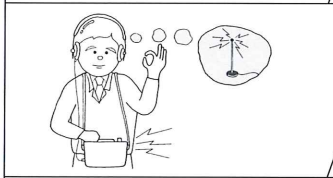
FEATURES



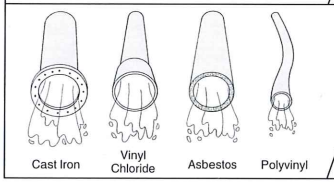
1 The location, direction and bending of all kind of water pipes can be detected with the NPL-100 locator for the preliminary survey for preventing the damage of pipe and for mapping the correct drawings.



2 The sound wave signal of NPL-100 locator is not affected by the magnetic field and the filter built in its receiver intercepts the external noises such as the traffic and footstep noises.



3 The operator can tune the frequency of sound wave in the resonant point of each pipe by the remote control of radio wave at the side of the receiver unit.



4 The NPL-100 locator can locate the non-metallic pipes such as the asbestos and P.V.C. as well as the metallic pipes including the iron pipes jointed with the insulated material.

STRUCTURE

- **Transmitter consisting of :**
  - Oscillator 1
  - Vibrator 1
  - Antenna 1
  - Connecting cable 2
  - Meter adaptor 1
- **Receiver consisting of :**
  - Amplifier 1
  - Sensor (Pick-up) 1
  - Headphones 1
- **Aluminum carrying case** 1

SPECIFICATIONS

- **Oscillator**
  - Power Source : 12V DC
  - Power Consumption : 20W
  - Frequency : 50~500Hz
  - Operating Temperature Range : -10℃~+55℃
  - Size : 170 (W) x210 (L) x 120 (D) mm
  - Weight : 1.0kg
- **Amplifier**
  - Power Source : LR6 Battery 1.5Vx 6pcs. (9V DC)
  - Current Consumption : 100mA
  - Amplification : 80dB
  - Frequency : 80~500Hz
  - Operating Temperature Range : -10℃~+55℃
  - Headphone Output : 8Ω (Stereophonic Type)
  - Level Indication : Meter Needle
  - Size : 170 (W) x75 (L) x 140 (D) mm
  - Weight : 1.0kg
- **Sensor (Pick-up)**
  - Type : Piezoelectric Acceleration Sensor
  - Sensitivity : 0.7V/g (at 400Hz)
  - Size : ϕ 80x50mm
  - Weight : 0.5kg

We reserve the right to change specifications without prior notice.

Instruments for the location of underground utilities and water leaks.

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