

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.

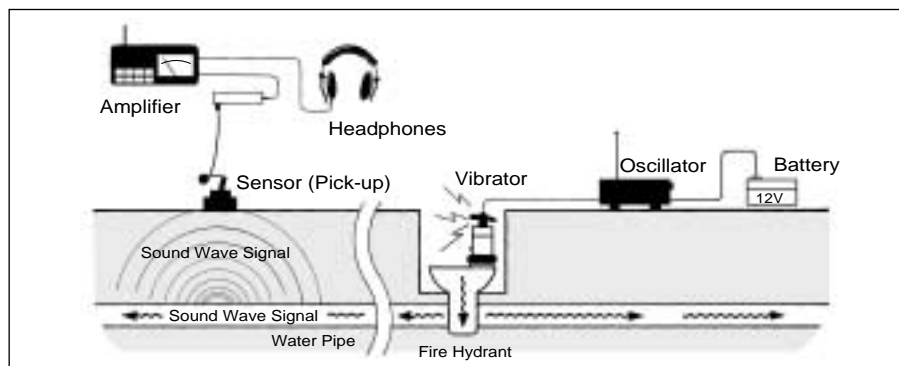
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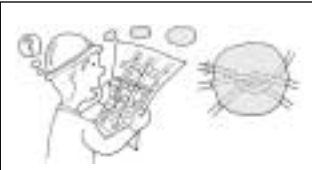
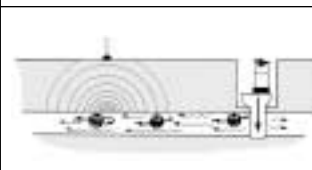
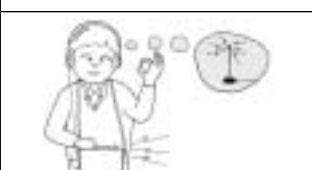
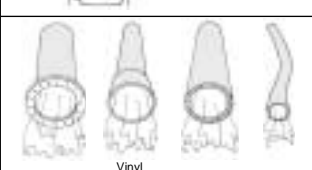
PRINCIPLE

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°C~+55°C |
| 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°C~+55°C |
| Headphone Output | : 8 (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 | : 80x50mm |
| Weight | : 0.5kg |

We reserve the right to change specifications without prior notice.



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