

# 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.**

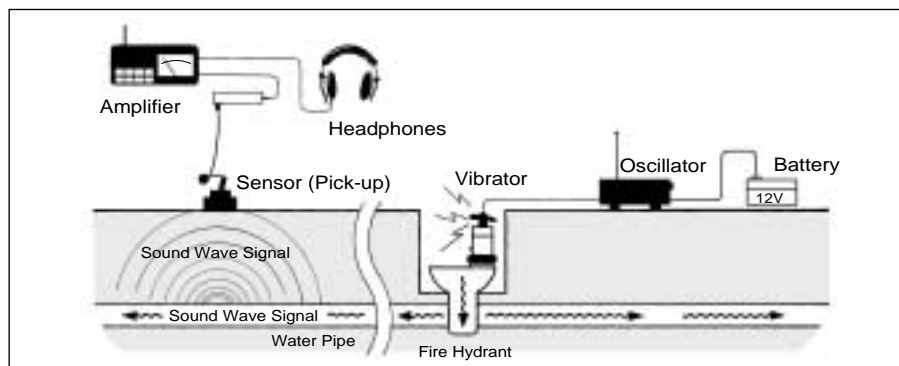
# FUJI NON-METALLIC PIPE LOCATOR

## NPL-100

### 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.



### 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

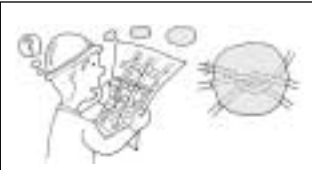


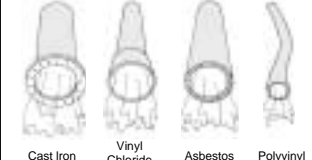
#### Amplifier

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

### FEATURES

	<b>1</b> 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.
	<b>2</b> 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.
	<b>3</b> 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.
	<b>4</b> 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.

We reserve the right to change specifications without prior notice.



Instruments for the location of underground utilities and water leaks.

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