

Operation Manual for PQWT-CL100 & CL200

Pipe Water Leak Detector for home using

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■ Foreword

Hunan Puqi Geologic Exploration Equipment Institute is a professional institution in china who engaged in the R & D, manufacturing and sales of Geophysical Prospecting Instruments, Pipeline leak detector, Underground metal detector and X ray security inspection equipment. More than 200 staffs, including 16 senior engineer, 49 intermediate engineer.

Over the years, Puqi focuses on Hydrogeological exploration, Intelligent data-capture technology and Application of special technique, carrying out Scientific research, Technical services and Marketing application. We have completed more than 65 items including National ministries, Sino-foreign cooperation and major scientific research projects. Having the honor to win a number of national research awards, with more than 112 national patents.

Meanwhile, Puqi has established long term cooperation relationship with many scientific research institutes in Germany, US, Australia, Hong Kong and other countries and regions. Number of geological data laboratories has been established at multiple places in china, using our own unique software to carry out long term data collection, analysis and detection for different geologic structure, and set up the differential database of different geologic structure area.

■ Caution

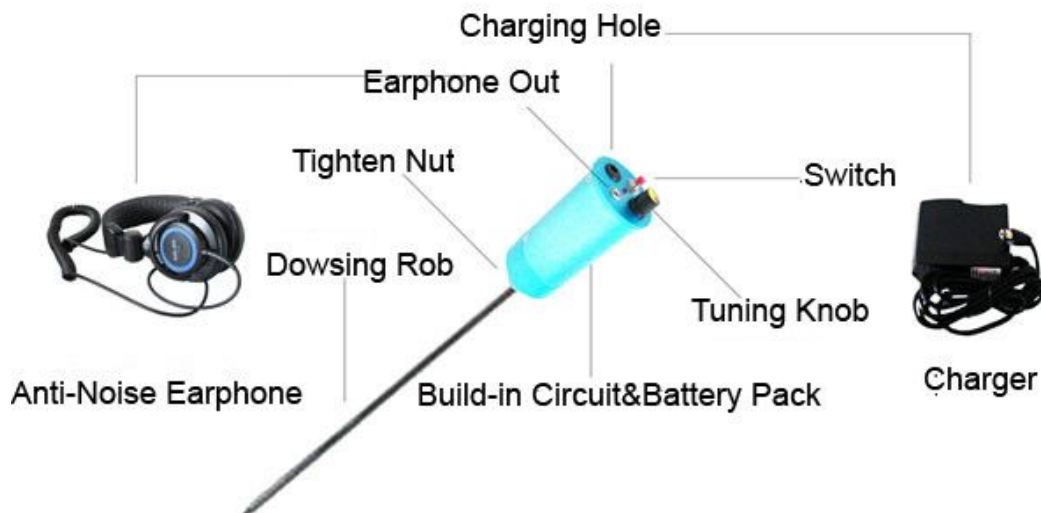
1. The instrument early in the design has been fully taken into account the use of the extreme environments. But still have to pay attention to the correct method of operation, please do not fall equipment deliberately, proper use will extend the life of the instrument.
2. The instrument is not waterproof, please do not immerse the instrument in water or operate in the rain.
3. To ensure the high sensitivity of the sensor, please gently, do not beat;
4. After using, please clean the instrument and load it into special box, please place the parts into the corresponding position.
5. The instrument should be placed in a cool and dry space.
6. Please do not disassemble the instrument, otherwise it will cause the sensor failure and system crashes.

■ Technical Parameters

Model No.	Depth	Frequency Range	Audio amplifier gain	Operation Mode	PS
PQWT-CL100	0.5meter	50-100HZ	Adjustable	Point Measurement	Power lead time 8 hours
PQWT-CL200	1 meter	50-200HZ			

■ Instrument Structure and Name

- PQWT-CL100



- PQWT-CL200



■ Introduction and how to use

● Function Overview

PQWT-CL100&PQWT-CL200 are professional electronic household pipeline leak detectors, with a high sensitive leakage listening probe rod, and highly-integrated circuit. Which is highly reliable, easy carrying, simple operation, economical and practical. Compared with traditional mechanical type, PQWT-CL100&PQWT-CL200 have higher sensitive piezoelectric sensors. With multilevel filter, can filter most of noise, the leak sound is much clearer. It is convenient to probe grassland, soil with probing rod, also suitable for all kinds of long road surveying. It is also applicable to all kinds of pipelines, including plastic pipes.

1. The use of latest digital signal processing chip and a digital filter chip. In particular, it can filter with the interference of environmental noise, allowing the operator to lock leakage points quickly.
2. Each has 50 ~ 100Hz, 50~200Hz, noise signal can be easily heard in real time.
3. Sensor is built-in preamp circuit.
4. Adopt latest noise detecting element, sounds clear.

■ How to use

1. Assembly

Before starting work, need to assemble the various components according to the following requirements to ensure work properly.

- Headphone into the headphone jack and make sure the connection is correct.
- Assemble the Dowsing Rob with the build-in pack.

2. Operation

To held the head of drain rod, with wearing the headphone. To tip the points, such as the tube, valves, branches, with the rod. Also, it can probe by sinking into grassland, soft ground and small gap, deeply the point to be measured. To press the switch bottom, you can start to probe. If there is a leak point in the vicinity of the pipeline, the leakage noise along the tube will pass to the rod tip, after amplifying and filtering the noise by the sensors, you can hear a clear leaking sound. When the sound of leaking is obvious loud along the pipeline buried position, you can survey back and forth by several times, through comparing the sound of water leakage, you will find the leak location.

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