

## SL-2098 Undergroud pipeline amperemetry detector



### 【Function and use】

Features:

The instrument can without digging overburden, conveniently and accurately detect the location of underground metal pipe, direction, depth, size and other insulating coating damage point feature.

use:

On the newly laid pipeline completion and acceptance;

According to the pipeline safety regulations regular testing to determine the effect of cathodic protection;

The branch line to locate host and guest;

To break ground before the excavation of underground pipeline sections distributed checks to prevent damage to underground oil, gas, water, electricity and other pipeline construction.

### 【Features】

★ The new digital filtering techniques, you can set the scope of the leak;  
★ with a variety of detection methods, and automatic conversion. Children under the transmitter battery voltage and automatic shutdown, alert signal to the receiver, the shutdown value is automatically saved.

★ can automatically measure the resistance to ground, the output signal of the high frequency modulated alarm signal, anti-interference ability of the pipe. Transmitter output power can automatically adjust the detection distance increases, the transmitter automatically shut down testing has been

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completed.

### **【Main Specifications】**

#### (一) Transmitter Technical Specifications:

1. Transmitting power: 0-25W, can automatically adjust
2. Impedance matching: 5-500  $\Omega$
3. Transmission Distance: 0.03-5Km, can be gradually moved to outside 5Km
4. Power supply: 12V (NiMH battery pack)
5. Weight: 2.8Kg (without battery weight)
6. Dimensions (mm): 255  $\times$  225  $\times$  100 (external)

#### (二) probe technical indicators:

1. Sensitivity: 0.1mV
2. To position deviation:  $\leq 10\text{cm}$
3. Detection depth:  $\leq 5\text{m}$
4. Power supply: 9.6V NiMH battery pack
5. Weight: 1.1Kg (with battery)
6. Dimensions (mm): 165  $\times$  155  $\times$  68

#### (三) the leak detector technical indicators:

1. Sensitivity: 0.1mV
2. Leak detection accuracy:  $\geq 0.25\text{mm}^2$
3. Power supply: 9.6V NiMH battery pack
4. Weight: 1.1Kg (with battery)
5. Dimensions (mm): 165  $\times$  155  $\times$  68

### **【Accessories】**

explore pole、battery、detection line、outlet line、ground wire、ground rod、rasp、magnet、220V power line、fuse 2A、charger。

### **【Test principle and method】**

Detecting the direction and depth of buried principles and methods: send a specific high-frequency modulation signal to determine the location of underground pipes underground pipeline, the direction and depth of the magnetic field detecting underground pipes.

Underground pipes to send a specific high-frequency modulation signal, in the underground pipeline coating damage point and the earth form a loop, radiation to the ground, just above the radiation damage in the strongest signal, according to this principle to identify the failure point of pipeline coatings .

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A "body capacitance method", is to use the body to do the leak detector sensing element, when the leak members walked around the leak, the leak detector audible prompt when the leak came just above, the speakers sound best ring, showing the value of the maximum, so find the exact point of leakage loss.