

## **F1 Undergroud pipeline amperemetry detector**



### **【Function and use】**

The instrument can without digging overburden, quickly and accurately detect the precise location of underground pipes to a depth of coating and insulation leakage loss point is oil, chemical, oil, gas, water and electricity sectors a method of detecting instrument to ensure the construction quality inspection and maintenance inspection of the underground pipeline coating.

### **【Features】**

- 1, using imported original high reliability switching power supply, charging the implementation of intelligent fast charge, without human control.
- 2, the instrument voltage, output current signal can be automatically converted.
- 3, DC power and AC power supply can be automatically converted.
- 4, high anti-jamming circuit for the census and maintenance of the distribution network.
- 5, liquid crystal display, improved performance and output precision instrument.
- 6, ad hoc protection automatic adjustment feature.
- 7, line modular structure, three anti-design, improve service life and reliability of field equipment.

### **【Main Specifications】**

Address: #159 TanGangLu HaiAn JiangSu China  
Phone: 0513-88931553

Zip Code: 226600  
Fax: 0513-88931551

(一) Transmitter Technical Specifications:

1. Output power: 0 ~ 30W automatic adjustment
2. Transmission frequency:  $1K \pm 0.1HZ$
3. Impedance: 0 ~  $500\Omega$ , automatic matching
4. Transmission Distance: 0.03 ~ 8km, can be progressively moved to 8km outside
5. Power supply: 12V NiMH battery pack
6. Operating temperature:  $-20\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$
7. Control system: DSP + vector control
8. Adjustment system: digital keyboard control
9. Weight: 2.8kg (without batteries)
10. Dimensions (mm):  $267 \times 220 \times 105$

(二) detector technical indicators:

1. Sensitivity: -80db
2. Position deviation:  $\leq 5\text{cm}$
3. Detection depth:  $\leq 8\text{m}$
4. Power supply: 9.6V Ni-MH battery
5. Working temperature:  $-20\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$
6. Display: Digital Display
7. Weight: 1.1 kg
8. Dimensions:  $165 \times 155 \times 68$

(三) the leak detector technical indicators:

1. Sensitivity: -80db
2. Leak detection accuracy:  $\geq 0.25\text{mm}^2$
3. Power supply: 9.6V Ni-MH battery
4. Working temperature:  $-20\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$
5. Display: Digital Display
6. Weight: 1.1 kg
7. Dimensions (mm):  $165 \times 155 \times 68$

**【Accessories】**

Probes, leak detection cable, output cable, grounding wire, grounding rods, small rasp, magnet, 220V power cord, charger, fuse 2A

**【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

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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 .

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.