

## F1-T Undergroud pipeline amperemetry detector



**Recommend: identify and locate weaknesses in pipeline coatings**

★New DSP Digital processing technology, Data processing more quickly;  
★able to test the resistance to ground, output signal connect High frequency alarm signal, has strong anti-interference

### 【the key technical indexes】

(一) Transmitter technology index:

1. output power: 0~25W automatic control
2. emissive frequency:  $1K \pm 0.1HZ$
3. impedance matching: 0~500 $\Omega$ , automatic matching
4. Range: 0.03~8km, Can be progressively moved to 8km outside
5. Power supply: 14.8V Military lithium batteries
6. working temperature: -20 $^{\circ}C$ ~+60 $^{\circ}C$
7. Control system: DSP+ vector control Support system upgrade
8. regulatory system: Digital keyboard control
9. Weight: 3.0kg (Excluding battery)
10. Size (mm): 276 $\times$ 227 $\times$ 98

(二) Detector technology index:

1. sensitivity: -85db
2. position deviation:  $\leq 5cm$
3. depth:  $\leq 8m$
4. Power supply: 9.6V Nickel hydrogen battery
5. working temperature: -20 $^{\circ}C$ ~+60 $^{\circ}C$
6. Display;: digital display
7. Weight: 0.9 kg
8. Size (mm): 165 $\times$ 110 $\times$ 68

(三) Leak detector technology index:

1. sensitivity: -85db
2. detection accuracy:  $\geq 0.25mm^2$
3. Power supply: 9.6V Nickel hydrogen battery

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4. working temperature:  $-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$
5. Display;: digital display
6. Weight: 0.9kg
7. Size (mm): 165×110×68

**【Accessories】**

Probe, leak detection cable, output cable, grounding wire, grounding rods, small rasp, magnets, 220V power line, 9.6V charger\*2

**【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 .

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.