

F2 Underground pipeline amperemetry detector



【Function and use】

Features:

★ The instrument without digging overburden, can easily and accurately detect the location of underground metal pipe, to the size of the distance, the depth of damage points, coating damage point, the number of break points, between points of damage and other functions.

use:

- ★ According SYJN4029-88 GJJ33089 standards and acceptance of the pipeline;
- ★ on the newly laid pipeline completion and acceptance;
- ★ According to the pipeline safety regulations regular testing to determine the effect of cathodic protection;
- ★ in charge of the branch line to locate;
- ★ old pipeline for testing to determine the pipeline coating condition;
- ★ before excavation of underground pipeline sections groundbreaking distributed checks to prevent damage to underground oil, gas, water, electricity and other pipeline construction.

【Features】

- ★ Built-in lithium battery imports, which greatly reduced the volume of products
- ★ high power output, anti-interference ability
- ★ intelligent storage operation, to facilitate the secondary boot call
- ★ transmission system embedded design, making the operation more agile
- ★ digital filtering technology, higher sensitivity
- ★ unique voltage controlled oscillator frequency design, testing more

【Main Specifications】

(一) Transmitter Technical Specifications:

1. Transmitting power: 0 ~ 30W automatic adjustment

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2. Transmission frequency: $1K \pm 0.1HZ$
3. Impedance: $5 \sim 1000 \Omega$, automatic matching
4. Transmission Distance: $0.03 \sim 10km$, 10km outside can be progressively moved
5. Power supply: 14.8V military lithium batteries
6. Operating temperature: $-30 \text{ }^{\circ}C \sim +60 \text{ }^{\circ}C$
7. Control system: DSP + vector control, system upgrade support
8. Adjustment system: digital keyboard control
9. Weight: 3kg (including battery)
10. Dimensions (mm): $276 \times 227 \times 98$

(二) detector technical indicators:

1. Sensitivity: -85db
2. To position deviation: $\leq 5cm$
3. Detection depth: $\leq 10m$
4. Power supply: 9.6V Ni-MH battery
5. Working temperature: $-30 \text{ }^{\circ}C \sim +60 \text{ }^{\circ}C$
6. Display: Digital Display
7. Weight: 0.9kg
8. Dimensions (mm): $165 \times 110 \times 68$

(三) the leak detector technical indicators:

1. Sensitivity: -85db
2. Leak detection accuracy: $\geq 0.25mm^2$
3. Power supply: 9.6V Ni-MH battery
4. Working temperature: $-30 \text{ }^{\circ}C \sim +60 \text{ }^{\circ}C$
5. Display: Digital Display
6. Weight: 0.9kg
7. Dimensions: $165 \times 110 \times 68$

【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 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

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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.