

SL-2018 Undergroud 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】

- 1,Original imported high-reliability power supply, charging the implementation of intelligent fast charge, without human control.
- 2, the instrument voltage, output current signal can be automatically converted.

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- 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】

(一) Transmitter Technical Specifications:

1. Output power: 0 ~ 25W automatic adjustment
2. Transmission frequency: 1K \pm 0.1HZ
3. Impedance: 0 ~ 500 Ω , automatic matching
4. Transmission Distance: 0.03 ~ 5km, 5km outside can be progressively moved
5. Power supply: 12V NiMH battery pack
6. Operating temperature: -10 $^{\circ}\text{C}$ ~ + 50 $^{\circ}\text{C}$
7. Control system: DSP + vector control, system upgrade support
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: -65db
2. Position deviation: $\leq 5\text{cm}$
3. Detection depth: $\leq 5\text{m}$
4. Power supply: 9.6V Ni-MH battery
5. Operating temperature: -10 $^{\circ}\text{C}$ ~ + 50 $^{\circ}\text{C}$
6. Display: Digital Display
7. Weight: 1.1 kg
8. Dimensions (mm): 165 \times 155 \times 68

(三) the leak detector technical indicators:

1. Sensitivity: -65db
2. Leak detection accuracy: $\geq 0.5\text{mm}^2$
3. Power supply: 9.6V Ni-MH battery
4. Operating temperature: -10 $^{\circ}\text{C}$ ~ + 50 $^{\circ}\text{C}$

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- 5. Display: Digital Display
- 6. Weight: 1.1 kg
- 7. Dimensions (mm): 165 × 155 × 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 .

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.