D4000LC

Cable Path Locator

- **Compass and Direction Display: Intuitively shows the location of pipelines and left/right directions.**
- **Tracking Correctness Indicator: Measures current direction, provides tracking correctness feedback, and eliminates adjacent line interference (for some frequencies).**
- **Depth and Current Measurement: Can display historical curves of signal strength.**
- **Live Cable Detection: A high-performance transmitter clamp maximizes the coupling and output of signals to live cables.**
- **Cable/Pipe Identification: Flexible clamp (optional) for easy use with clear identification results; stethoscope (optional) for situations where clamp use is impractical.**
- **Ground Fault Location: The optional voltage booster can increase the maximum output voltage to 1000V; the optional A-frame can locate the ground insulation damage points of pipelines without zero adjustment, and an arrow indicates the direction of the fault point.**

Features

● Compass and Direction Display: Intuitively shows pipeline position and left/right orientation.

● Tracking Correctness Indicator: Measures current direction with tracking accuracy feedback to eliminate adjacent-line interference (select frequencies).

● Depth and Current Measurement: Displays historical signal strength curves.

● Fully Digital High-Precision Sampling Processing: Stable and reliable, with ultra-high sensitivity, an extremely narrow receiving passband, and strong anti-interference capability; it can fully suppress power frequency and harmonic interference from adjacent live cables and pipelines.

● Live Cable Detection: High-performance transmitter clamp maximizes signal coupling to live cables.

● Cable/Pipeline Identification: Flexible clamp (optional) offers user-friendly operation with clear identification results; stethoscope (optional) for use when clamp application is impractical.

● Ground Fault Location: Optional voltage booster elevates maximum output voltage to 1000V. Optional A-frame locates pipeline ground insulation breaks without zero adjustment, with arrow indicating fault direction.

● Multiple Detection Frequencies: Supports active detection and passive detection modes.

● Transmitter Signal Output Modes: Direct Connection Output, Clamp Coupling, Radiation Induction.

● The transmitter is equipped with a digital power amplifier for high-power output, fully automatic impedance matching, and fully automatic protection.

● Built-in removable high-capacity lithium-ion battery, with automatic shutdown when the voltage is low and automatic shutdown after prolonged inactivity.

Technical Specifications

Transmitter:

1. Output Modes: Direct Connection Output, Radiation Induction, Clamp Coupling, Fault-Finding Voltage Booster (optional).
2. Output Frequencies: 640 Hz, 1280 Hz, 10 kHz, 33 kHz, 82 kHz, 197 kHz.
3. Output Power: Maximum 10 W, 10 levels adjustable, fully automatic real-time impedance matching.
4. Direct-Connect Output Voltage: Up to 150Vpp.
5. Overload and short-circuit protection.
6. Human-machine interface: 320×240 dot matrix LCD display.
7. Built-in Battery: 4 x 18650 lithium-ion batteries, nominal voltage 7.4 V, capacity 6.8 Ah

Receiver:

1. Input Methods: Built-in Receiving Coil, Flexible Clamp (optional), Stethoscope (optional), Fault-Finding A-Frame (optional).
2. Receiving frequencies:

   Active Detection Frequencies: 640Hz, 1280Hz, 10kHz, 33kHz, 82kHz, 197kHz.

Power Frequency Passive Detection Frequencies: 50Hz/60Hz and 250Hz/300Hz (user-configurable).

RF passive detection bands: Center frequencies of 10kHz, 33kHz, and 82kHz.

3. Pipeline Detection Modes: Wide Peak Method, Narrow Peak Method, Sound Valley Method.

4. Cable Identification Modes: Flexible clamp (optional) intelligent identification and current measurement; stethoscope (optional) identification.

5. Human-machine interface: 320×240 dot matrix LCD display.

6. Built-in Battery: 2×18650 lithium-ion batteries, nominal voltage 7.4 V, capacity 3.4 Ah.

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