Huazheng®

HZ-B+
Acoustic And Magnetic Synchronization Pointer

Huazheng Electric Manufacturing (Baoding) Co., Ltd

Dear user:

Thank you for choosing HZ-B+ Acoustic And Magnetic Synchronization Pointer.

We hope that this instrument can make your work easier and more enjoyable, so that you can get the feeling of office automation in the test and analysis work.

Before using the instrument, please read this manual, and operate and maintain the instrument according to the manual to prolong its service life. "Just a light press, the test will be completed automatically" is the operating characteristics of this instrument.

If you are satisfied with this instrument, please tell your colleagues; if you are not satisfied with this instrument, please call (0312) 6775656 to tell you to serve you at all times-Baoding Huazheng Electric Manufacturing Co., Ltd., our company will definitely make you satisfied !

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I. HZ-B+ Overview

Due to the extreme complexity of the power cable laying environment, accurate positioning of the cable fault test has always been a critical step. Even with an accurate rough measurement distance, due to the influence of the external environment, it is difficult for us to quickly and accurately locate it. HZ-B+ Cable Fault Acoustic-Magnetic Accurate Pointer is a portable, ultra-quiet, visualized, and path-indicating impact discharge receiving precise pointing instrument. It is used in conjunction with a high-voltage impact generator and uses the magnetic field signal generated by the impact discharge at the cable fault point. The time difference between the signal and the sound signal is used to pinpoint the exact location of the cable fault point. At the same time, it adopts the leading background intelligent noise reduction and sound tracking technology, which can realize continuous optimization and perfect sound effect. The discharge sound can be measured and heard through the earphone, which can be used to assist in judging the cable The location of the fault point, the error is within the diameter of the probe. It has the function of indicating the path while accurately determining the point, ensuring fast positioning.

When HZ-B+ uses the continuous impact discharge of the front end, the impact discharge sound of the fault point within the rough measuring distance range propagates on the ground above the cable and is recorded by the ground penetrating sensor on the ground. The distance between the detection point and the real fault point of the cable can be calculated by two methods, one is the volume of the impact discharge noise; the other is the time difference between the magnetic field signal and the sound signal sent out synchronously at the moment of discharge at the fault point to reach the ground penetrating sensor .

II. Technical Features

- Excellent discharge sound quality, the background is quieter, and the monitoring earphone is used to quickly and reliably locate the fault point;
- The magnetic field signal can be selectively recorded to obtain higher fixed-point accuracy, and the trigger threshold of the sound channel and the magnetic field channel can be set automatically;
- Manual/automatic ultra-quiet technology;
- BNR intelligent background noise reduction technology;
- Open and close the upper limit of the impact discharge volume;
- A black arrow is used in the receiver to automatically display the heading direction of the precise point;

- In the receiver, the yellow marking line is used to indicate the relative left and right positions of the central axis of the faulty cable, so as to ensure that the fixed point is always directly above the cable;
- Use the time difference between the two times before and after the impact discharge to determine the precise location of the fault point;
- Special self-falling ground penetrating sensor, equipped with sensor joints for soft road, hardened road and lawn;
- Reliable imported connectors are selected to ensure the purity of the sound, and the humanized design of the height-adjustable probe handle is very applicable.

III. Standard Configuration

- One receiver host, model HZ-B+, including shoulder strap;
- One sensor (ground-penetrating microphone);
- A height-adjustable handle with a height range of 450 – 750 mm;
- One earphone, audio-grade sound quality;
- One signal line, connecting the receiver host with the sensor, 1.20 m long;
- One hard ground probe, 18 mm long;
- One lawn probe, 75 mm long);
- 6 AAA alkaline batteries, type IEC R6;
- An English manual.

IV. Technical Parameter

Project	parameter value
Impact discharge sound magnification	>90dB, impact discharge volume upper limit 84dB(A) can be turned on or off
Sensor dynamic range • Sound channel • Magnetic channel	 >104dB >110dB
Sensor operating frequency	100Hz---1500Hz
Filter settings • No filtering • Low-pass filtering • Bandpass filtering • High-pass filtering	 100Hz---1500Hz 100Hz---400Hz 150Hz---600Hz 200Hz---1500Hz
Power supply • Alkaline batteries • Lithium battery	>10 hours Chargeable
LCD Monitor	TFT super bright true color screen, 320x240