

GM.850N

Product Overview

- Acoustic magnetic synchronous pinpointing method is extremely accurate and based on traditional audio magnetic pin-pointing method with many improvements.
- Traditional method using the high voltage generator to impact the fault cable by DC high voltage to make the fault point breakdown and discharge. The mechanical vibration from this delivered to earth which is collected by the sensor, then synchronised with the sound.
- The traditional method only uses the earphone's to monitor and use the meter pointer to help to distinguish the discharging sound. Because this discharging sound is fleeting and difficult to distinguish from environment noises, which requires an experienced user.
- To modify the traditional method, we now use acoustic magnetic synchronous pinpointing method.
- Because the magnetic transmission velocity is much quicker than the acoustic transmission velocity, It's definitive sampling to find the faulty point by testing the time difference between magnetic signal and audio signal. Keep moving the sensor to find the point with min. time difference, and this will be the fault point.



Measuring Function:

Receiver

- | | |
|---------------------|--------------------------------------|
| • Display | LCD-colour display, 320 x 240 Pixel |
| • Safety | Volume limitation to 84dB(A) |
| • Accuracy | 0.1m |
| • Gain | >120 dB, automatic |
| • Power Supply | Li-ion battery series, 7.4V, 3400mAh |
| • Quick charging | Approx. 3.5 hours |
| • Operation time | > 10 hrs. |
| • Protection rating | IP 65 |
| • Dimension | (H x W x D) 210×95×115mm |
| • Weight | 0.6 kg (incl. Batteries) |

Sensor

- | | |
|-------------------|------------------------------------------------------|
| Dimensions | Diameter 230 mm (outer rim) |
| Height | 142 mm |
| Handle length | 450 ... 855 mm adjustable |
| Weight | 2.0 kg (incl. Batteries handle) |
| Dynamic range | Magnetic channel >110 dB
Acoustic channel >110 dB |
| Frequency range | 80Hz~1500Hz |
| Filter stages OFF | 80Hz~1500Hz |
| low-pass | 80Hz~400Hz |
| high-pass | 200Hz~1500Hz |
| band-pass | 150Hz~600Hz |
| Protection rating | IP 65 |

Key Features:

- Integrated function of acoustic magnetic synchronization method, the step voltage method (optional)
- Intelligent pinpointing method to calculate the acoustic magnetic delay value
- Background noise reduction function
- Auto muting function to avoid the noise
- Electronic compass function to display the angle between cable route direction and sensor. It's very useful for quick pinpointing acoustic channel filtering parameter adjustable
- Auto gain adjustment function for easy use, automatic trigger by magnetic field
- High performance anti-noise headphone
- Water-proof IP 65 for outdoor application
- Colour LCD to make clear display in full sun light
- Power supply management: power off automatically in 5 min. without action; Power off also when low battery voltage Built-in Li-ion battery
- Quick charging below 4 hours
- Use environment: -20°C~60°C, 5-90% RH, elevation <4500m
- The second silent technology in the new GM.850N.
- As soon as one approaches the handle, the sound switches off, before the hand touches the handle. No cracks or bangs.
- After removing the hand, a short delay ensures, that the GM.850N sensor is standing stable and possible mechanical oscillations have ceased, before the headset is activated.