

## ES9070 Wireless High Voltage Voltmeter




### I . Characteristic

**ES9070 wireless high-voltage voltmeter** is specially designed and manufactured for high-voltage transmission line power inspection, high-voltage transmission line-to-ground voltage, induced voltage test and current test. The product breaks through the limitation of traditional high-voltage electroscopes that can only test whether there is electricity, and solves the problem of potential safety hazards due to relatively high induced voltages after the traditional electroscopes. The voltage level of the electric inspection is 0.1kV ~ 220kV, which completely covers the electric inspection and ground voltage test of each voltage level (110V, 220V, 3kV, 6.3kV, 10kV, 35kV, 66kV, 110kV, 220kV), and there is no need to purchase according to different voltage levels. Multiple sets of high-voltage electroscopes are cost-saving, safe, reliable, time-saving and fast, and are an essential tool for power transmission line maintenance. When the transmission line is repaired and maintained, even if the line has been disconnected, due to the capacitive effect, there may still be a very high high voltage voltage through induction, which seriously threatens the safety of the operator and the operation process. Whether the voltage has dropped to a safe and operational voltage level.

**ES9070 wireless high voltage voltmeter** is composed of receiver, detector, telescopic insulating rod, etc. During the test, the detector only needs to be hung on the bare wire with the insulating rod, and the voltage value can be read on the handheld receiver through wireless signal transmission. The straight-line transmission distance of wireless signal is about 30 meters, and the detector has sound and light alarms such as LED indication and buzzer, which makes the test easier and easier.

### II . Technical Specification

|                             |   |
|-----------------------------|---|
| Features                    | Wireless high-voltage voltage and induced voltage measurement, high-voltage electrical inspection |
| Power supply                | Receiver: DC6V, 5 AA alkaline batteries   |
|                             | Detector: Zinc-manganese dry battery 6F22, 9V   |
| Transmission distance       | Wireless transmission, straight-line transmission distance of about 30 meters                     |
| Electrical inspection level | 70V ~ 220kV (110V, 220V, 3kV, 6.3kV, 10kV, 35kV, 66kV, 110kV, 220kV)                              |

|                                    |  |
|------------------------------------|--|
| Display range of ground voltage    | 0.1kV~120kV (voltage to ground)  |
| Display accuracy of ground voltage | High-voltage overhead line $\pm 15\% \pm 5 \text{dgt}$ (other applications: $\pm 25\% \pm 5 \text{dgt}$ )  |
| Line voltage display range         | 0.1kV~220kV (corresponding display line voltage, multiply $\sqrt{3}$ according to the ground voltage)  |
| Line voltage display accuracy      | High-voltage overhead line $\pm 15\% \pm 5 \text{dgt}$ (other applications: $\pm 25\% \pm 5 \text{dgt}$ )  |
| Probe diameter                     | $\Phi 70 \text{mm}$  |
| Probe length                       | 55mm   |
| Radio frequency                    | 433MHz   |
| Display mode                       | 3.5 inch color screen  |
| LCD size                           | 72mm $\times$ 55mm   |
| Power indicator                    | The detector has a green power indicator   |
| Electric inspection instructions   | The detector has sound and light indication function, red double flashing light indication and "beep-beep-beep" buzzer during electricity inspection |
| Display rate                       | 2 times/sec  |
| Data storage                       | 500 groups   |
| LCD backlight                      | Have   |
| Automatic shut-down                | After about 15 minutes of power on, the meter will automatically shut down   |
| Low battery indication             | Low battery voltage, showing low battery symbol“  ”              |
| Power consumption                  | Detector: 150mA Max; Receiver: 30mA Max  |
| Instrument quality                 | Instrument: about 450g (including battery);<br>Detector: about 240g (including battery);   |
| Instrument size                    | Receiver: 187 $\times$ 119 $\times$ 48mm<br>Detector: 146 $\times$ 100mm $\times$ 75mm   |
| Insulation rod length              | Maximum diameter $\Phi 38 \text{mm}$ ; length: 3 meters  |
| Insulation test                    | Both ends of the insulating rod after stretching: AC 220kV/rms<br>Receiver and detector: AC3700V/rms (between exposed metal and plastic case)        |
| Outside interference               | No strong electromagnetic field; there should be no 433MHz co-channel interference at the test site  |
| Working temperature and humidity   | -10 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$ ; below 70%rh  |
| Storage temperature and humidity   | -10 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$ ; below 80%rh  |

### III. Packing List

|                |            |
|----------------|------------|
| Receiver       | 1 set      |
| Detector       | 1 set      |
| Probe          | 1          |
| Probe hooks    | 1          |
| Insulated rod  | 1          |
| LR6 battery    | 5 sessions |
| 6F22 battery   | 1          |
| Manual         | 1 copy     |
| Instrument box | 1          |

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