

ES2080 Series Wireless High Voltage Phase Detector



I . Characteristic

ES2080 wireless high-voltage phase detector is used in power line or substation power inspection, phase verification, phase test, phase sequence judgment, transformer group judgment, etc. (line voltage: 70V~550kV). The phase detector adopts wireless transmission technology, and the transmission distance can reach 30 meters; the 3.5-inch LCD color screen can display the phase, frequency, voltage and other phase detection results on the same screen, and the dynamic vector diagram indication is clear and intuitive; it has a voice prompt "X signal is normal, The Y signal is normal, in-phase, out-of-phase, etc.


When **ES2080 wireless high-voltage phase detector** is conducting phase detection of high-voltage lines (when the voltage exceeds 220V), the metal probe of the detector can be gradually approached to the wire, and the phase detection can be completed when the electric field signal is sensed, and the phase detection result is directly displayed on the wireless On the receiver, when the bare wire voltage exceeds 35kV, non-contact phase detection must be used to ensure safety.

II . Model Specifications

Model	ES2080	ES2080A
*Voltage measurement function	Have	N/A

III. Technical Specification

Features	Frequency measurement, phase measurement, phase sequence display, *voltage measurement, voltage inspection
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Phase detection method	Contact phase detection: The bare wire below 35kV or the wire with insulating sheath below 550kV can be contacted for phase detection and non-contact phase detection. When the bare line voltage exceeds 35kV, a non-contact test must be used, and the probe is gradually approached to the wire to detect the phase	
Transmission distance	Wireless transmission, straight-line transmission distance of about 30 meters	
Differential characterization	In-phase: $-25^{\circ} \sim 25^{\circ}$	Out of phase: $95^{\circ} \sim 145^{\circ}$ and $215^{\circ} \sim 265^{\circ}$
Phase detection voltage	70V~550kV	
Phase range	$0.0^{\circ} \sim 360.0^{\circ}$; Accuracy: $\leq \pm 12^{\circ}$; Resolution: 0.1°	
Frequency range	45.0Hz~65.0Hz; Accuracy: $\leq \pm 2\text{Hz}$; Resolution: 0.1Hz	
*Voltage range	70V~110kV; Accuracy: $\pm 10\%$ Resolution: 100V	
Transmit frequency	433MHz, 315MHz	
Display mode	3.5 inch color screen	
LCD display size	72mm×55mm	
Meter size	Host 187×119×48mm Detector 146×100×75mm	
Phase indication	Simultaneous display of phasor diagram and numbers	
Work instructions	When the phase detector has sound and light indication function, red double flashing light indication and "beep-beep-beep" beep	
Data storage	300 groups, flashing "FULL" symbol indicates that the storage is full	
Data access	Data access function: "READ" symbol display	
Alarm function	When the measured value exceeds the alarm setting value, an alarm prompt will be issued	
Power consumption	Detector: 30mA Max Host: 150mA Max	
Instrument quality	Instrument: about 450g (including battery);	
Battery voltage	Low battery voltage, showing low battery symbol “  ”	
Automatic shut-down	The meter shuts down after about 15 minutes of inactivity	
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;	
Working temperature and humidity	Host and detector: AC3700V/rms (between exposed metal and plastic casing)	
Storage temperature and humidity	$-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$; below 70%rh	
Suitable for safety regulations	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$; below 80%rh GB13398-92, GB311.1-311.6-8, 3DL408-91 standards and the newly promulgated national power industry standard "General technical conditions for 1kV ~ 35kV portable phase detectors for live work DL/T971-2005" requirements	

*ES2080 only

III. Packing List

Receiver	1 set
Detector	2 units
Probe	2 pieces
Check	2 pieces

Insulated rod	2 pieces
LR6 battery	5 pieces
6F22 battery	2
Inspection line	1
Manual	1 copy
Instrument box	1

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