



EK-A150 Wireless High Voltage Phase Detector



Product Function

Applied to phase detection, phase testing, phase sequence judgment, and voltage detection on power lines below 500kV, high-voltage switchgear (metalclad withdraw switchgear, ring main unit, etc.), or substations.

Product Features

1. Adopts wireless transmission technology with a phase detection distance of up to 200 meters, providing accurate phase detection and convenient operation.
2. Voice prompts: "X signal normal," "Y signal normal," "same phase," "out of phase."
3. Equipped with a 3.5-inch LCD color screen that simultaneously displays phase, frequency, phase sequence, and phase detection results, with dynamic vector diagram indication for clear and intuitive viewing.
4. The meter also features voltage detection function and can display the voltage level.

Technical Specification

Power Supply	Host: DC 3.7V, 2500mAh rechargeable lithium battery; Detector: DC 3.7V, 1100mAh rechargeable lithium battery.
Display Screen	3.5-inch color screen; display area: 71mm × 53mm.
Phase Detection Mode	Contact phase detection: when the phase detection voltage is ≤110kV. Non-contact phase detection: when the phase detection voltage is between 10kV and 110kV (phase detection can be performed on the insulation sheath of the cable). When the phase detection voltage exceeds 110kV, non-contact phase detection must be used.
Phase Detection Voltage	AC 10V~500kV.
Phase Detection Distance	200m.
Phase Qualitative	Same phase: $-20^{\circ} \sim 20^{\circ}$; Out phase: $100^{\circ} \sim 140^{\circ}$ and $220^{\circ} \sim 260^{\circ}$.
Phase Range	$0^{\circ} \sim 360^{\circ}$; Accuracy: $\pm 8^{\circ}$; Resolution: 1° .
Frequency Range	45.0Hz~65.0Hz; Accuracy: ± 2 Hz; Resolution: 0.1Hz.
Voltage Detection Indication	"Bee—bee—bee" buzzer sound.
Voltage Level Display	0.4kV~110kV.
Transmitting Frequency	433MHz.
Voice Prompts	"X signal normal," "Y signal normal," "same phase," "out of phase."
Phase Indication	Vector diagram and numerical display simultaneously.
Data Storage	200 groups (power down or replacing battery will not lose data).
Automatic Shut Down	The meter will automatically shut down approximately 15 minutes after startup.
Battery Level Indication	The host displays battery power in 4 grids. When only 1 grid or 0 grids remain, please charge the battery. When the detector indicator light flashes rapidly, it indicates low battery voltage and the detector needs to be charged.
Rated Current	Detector: 30mA Max; Host: 150mA Max.
USB Communication	USB interface; with PC software, stored data can be uploaded to computer for storage, analysis and printing.
Insulation Rod Length	Telescopic insulation rod: 670mm~3000mm.
Meter Dimensions	Host: 195mm × 100mm × 45mm; Detector: 130mm × 65mm × 45mm.
Meter Weight	Approx. 5.66kg (including accessories).
Insulation Test	The insulation rod stretched to both ends: AC 220kV/rms; Host, detector: AC3700V/rms (between exposed metal and plastic shell).
Accessories	Host: 1 pc; Detector: 2 pcs; Probe tip: 2 pcs; Probe hook: 2 pcs; Insulation rod: 2 pcs; USB communication/charging cable: 2 pcs; Power adapter: 2 pcs; Test lead: 1 pc; Ring main unit test lead: 2 pcs; Meter case: 1 pc.

