

GDHX-9350 Phase Detector



General Information

GDHX-9350 wireless high-voltage phase detector is specially designed and manufactured for the phase detection of high-voltage lines and high-voltage switch cabinets (center cabinets, ring main cabinets, etc.). The detector can detect phase in very low-voltage lines and fully realize automatic phase detection from 10V to 500kV voltage. The wireless transmission distance of this phase detector is long, and the distance is up to 260m (in an open field). The phase detector also has the functions of testing phase, frequency, phase sequence, transformer group judgment, electricity inspection and voltage level display. When the line voltage exceeds 110kV, non-contact phase-detection must be used. When doing phase detection, the metal hook of the detector shall be gradually close to the conductor. When the electric field signal is induced, the phase detection can be completed without direct contact with the high-voltage conductor, safe and fast. When used for the phase detection of the ring main cabinet, the detector must use the probe and the ring main cabinet test line.

GDHX-9350 wireless high voltage phase detector is composed of host, detector, telescopic insulating rod, monitoring software, USB communication line, etc. The host adopts 3.5-inch true color LCD screen, which can display phase, frequency, phase sequence and phase detection results on the same screen. ; Vector graph indication, phase indication, clear and intuitive; with "X signal normal, Y signal normal, in-phase, out-of-phase" and other voice prompt functions, making the test easier. The monitoring software has the functions of online real-time monitoring, historical data query, vector graph indication, and phase indication; it has functions such as historical data reading, querying, saving, and printing.

Specifications

Function	High-voltage line and high-voltage switch cabinet (center cabinet, ring main cabinet, etc.) phase detection, frequency, phase, phase sequence test and electrical inspection
Power supply	Host: 3.7V, 2600mAh rechargeable lithium battery Detector: 3.7V, 600mAh rechargeable lithium battery
Phase detection method	Contact phase detection: $\leq 110\text{kV}$ line Non-contact phase detection: $10\text{kV} \sim \leq 110\text{kV}$, phase detection can be carried out on the cable insulation layer When the line voltage is $> 110\text{kV}$, a non-contact phase detection must be used.
Phase detecting voltage	AC 10V-500kV
Distance	260M
Phase discrimination	In phase: $-20^\circ \sim -20^\circ$; out of phase: $100^\circ \sim 140^\circ$ and $220^\circ \sim 260^\circ$
Range	Test phase: $0^\circ \sim 360^\circ$
	Test frequency: 45.0Hz--65.0Hz
Accuracy	Phase: $\leq \pm 8^\circ$
	Frequency: $\leq \pm 2\text{Hz}$
Resolution	Phase: 1° Frequency: 0.1Hz
Transmit frequency	433MHz, 315MHz
LCD size	3.5-inch color screen; display area: $71\text{mm} \times 53\text{mm}$
Phase indicator	Simultaneous display of vector graphics and numbers
Power indicator	The detector has a green power indicator
Electrical inspection indicator	"Beep-beep-beep"
Voltage display	Display voltage level
Display rate	2 times/sec
Data storage	200 groups (data will not be lost after power failure or battery replacement)
Automatic shut-down	Approximately 15 minutes after power on, the meter will automatically shut down
Battery voltage	The host battery has a 4-grid power display. When there is only 1 grid or 0 grid, please charge it; when the indicator light of the detector flashes rapidly, it means that the battery voltage is low, please charge.
Rated current	Detector: 30mA max; Host: 150mA max
Instrument weight	Instrument: 950g (including battery); total mass of packaging and insulating

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	rod: about 3.0kg
Instrument size	Host 195mm*100mm*45mm; detector 130mm*65mm*45mm
Insulation rod length	Approximately 4500mm
Insulation test	Both ends of the insulating rod after stretching: AC 220kV/rms
External interference	Host, detector: AC3700V/rms (between exposed metal and plastic housing)
Working temperature and humidity	No strong electromagnetic field; no 433MHz, 315MHz co-frequency interference
Operating temperature and humidity	-10°C--40°C; below 80%rh
Storage temperature and humidity	-10°C--60°C; below 70%rh
Protection level	IP63
Safety	Comply with IEC61481-A2; 2004; IEC 61243-1 ed.2:2003 standard