



### Product Function

Applied to phase detection, phase testing, phase sequence judgement and electricity testing of the high voltage line, metalclad withdraw switchgear and ring main unit and others sites.

### Product Feature

1. Equip with 3 type phase detectors, can be applied to different kinds of phase detection sites.
2. Voice prompt: "X signal normal, Y signal normal, Same phase, Out phase".
3. Equip with 3.5 inch LCD colorful screen, which can display the phase, frequency, phase sequence, and phase detecting results on the same screen. The dynamic vector diagram indication, clear and obvious.
4. The detector has electricity testing function, and can display the line voltage below 110KV.
5. With data storage function, can store 200 groups of data.

### Detector Technical Specifications

High Voltage Line Phase Detecting	
Detector Power Supply	Detector: 3.7V, 1000mAh Rechargeable lithium battery
Phase Detection Mode	1.Contact mode phase detection: $\leq 110\text{kV}$ circuit line 2.Non-Contact mode phase detection: when display between $\geq 10\text{kV}$ and $\leq 110\text{kV}$ , it can make phase detecting on the insulation skin of the cable; when the line voltage $> 110\text{kV}$ , must use non-contact phase detection
Phase Detection Voltage	AC 10V~500kV
Phase Detecting Distance	200m
Detector Size	130mmX65mmX45mm
Detector Weight	2PCS, total weight 400g
Insulation Rod Length	Max dia.: $\Phi 45\text{mm}$ ; Length: contraction state 1000mm; stretched state: 4300mm

### Ring Main Unit Technical Specification

Detector Power Supply	Detector: 3.7V, 1000mAh Rechargeable lithium battery
Phase Detection Mode	Contact mode phase detection
Phase Detection Voltage	AC 1V~600V
Phase Detection Distance	30m
Detector Size	120mmX54mmX30mm
Detector Weight	2PCS, total weight 260g

### Metalclad Withdraw Switchgear Technical Specification

Detector Power Supply	Detector: 3.7V, 1000mAh Rechargeable lithium battery
Phase Detection Mode	Non-Contact mode phase detection
Phase Detection Voltage	AC 10KV~35KV
Phase Detecting Distance	20m
Detector Size	80mmX46mmX26mm
Detector Weight	6PCS, total weight 420g

### Others Technical Specifications

Host Power Supply	3.7V, 2600mAh Rechargeable lithium battery
LCD Size	3.5 inch colorful screen; display area: 71mmX53mm
Host Size	195mmX100mmX45mm

Host Weight	350g
Phase Qualitative	Same phase: $-20^{\circ}\sim 20^{\circ}$ ; Out of phase: $100^{\circ}\sim 140^{\circ}$ and $220^{\circ}\sim 260^{\circ}$
Phase Range & Accuracy	$0^{\circ}\sim 360^{\circ}$ ; Accuracy: $\leq \pm 8^{\circ}$
Frequency Range & Accuracy	45.0Hz~65.0Hz; Accuracy: $\leq \pm 2\text{Hz}$
Transmitting Frequency	433MHz
Phase Indication	Vector diagram and digital display
Power Indication	The detector with the green power indicator
Electricity Testing Indication	"Du-du-du" buzzer sound
Voltage Level Range	0.4kV~110kV
Display Speed	2 times/second
Data Storage	200 groups(Power down or replace the battery will not lose data)
Automatic Shutdown	15 minutes without any operation after starting up, the detector will shutdown automatically
Battery Voltage	The host battery shows 4 grip of power, when only 1 or 0 grip, please charge; When the indicator light of the detector flashes quickly, indicates that the battery voltage is low, please charge
Rated Current	Detector: 30mA max; Host: 150mA max
Instrument Weight	About 8.380KG (include the insulation rod)
Instrument Case Size	1050mmX310mmX100mm
Insulation Test	The insulation rod stretched to both ends: AC 220kV/rms; Host & detector: AC3700V/rms(between exposed metal and plastic shell)
External Interference	No extra-strong electromagnetic field; No 433MHz same frequency interference
Working Temperature & Humidity	$-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$ ; below 80%RH
Store Temperature & Humidity	$-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$ ; below 70%RH
Protection Level	IP63
Suitable Safety Standard	GB13398-92, GB311.1-311.6-8, 3DL408-91, and the national power industry standard requestment (general technical conditions DL/T 971-2017 for 1kV ~ 35kV portable nuclear phase devices for live working). IEC61481—A2 2004; IEC 61243—1 ed.2:2003
Accessories	Host: 1PCS; Line detector :2PCS; Pin probe: 2PCS; Hook probe: 2PCS; Line detector calibration line: 1PCS; Insulation rod: 2PC; Ring main unit detector: 2PCS; Alligator clip: 2PCS; Metalclad withdraw switchgear detector:2PCS; Metalclad withdraw switchgear calibration line:1PCS; 4in1 charge cable: 2PCS; 3in1 charge cable: 1PCS; Charger adaptor: 3PCS; Tool Bag: 1PCS

