



GDHX-9500 Phase Detector



Product Description

GDHX-9500 Phase Detector is mainly used in electric power lines, phase and phase sequence calibration in substation, with main functions including electrical inspection, phase calibration and phase sequence measurement. It uses double shielding and brand new digital circuits, with strong anti-interference, accorded with EMC standards, suitable for various electromagnetic interference situations.

The high voltage phase signal of measured lead will be transmitted directly after treatment, the handset will receive and make phase comparison, determine the results after phase detection, real-time display phase angle difference and vector. It uses wireless transmission technology, safe and reliable, fast and accurate, suitable for using at different voltage levels (10V-500KV). When checking the grid structure, it is able to accurately identify the relative phase of different leads for the

three-phase connected line, without any electrical connection between two measurement components, which makes the application of the measurement device very flexible and safe.

Security Matters

- Using wireless transmission technology, its basic working principle is real-time phase comparison.
- Please observe and follow the regulation to use this product, in order to ensure the safe operation of the instrument, the ends of X and Y detector are not allowed to make withstand voltage test.
- The metal head parts of the insulating rod is strictly prohibited to contact with any objects during the test.
- Please comply with the national power industry safety regulations of preventive test for safety tools and products.
- Please pay attention to the training and examination for staffs who work on high-voltage live lines or near the high-voltage lines.
- Phase calibration on live equipment must be carried out by insulating rod.

Features

- Test voltage: 10V-500kV, suitable for different voltage level.
- Accuracy: self-calibrating error $\leq \pm 3^\circ$.
- Sampling speed: 10 times/s.
- Date and time setting: date and time adjustment, easy for users to browse, view the historical data.
- Back-light time setting: normally on, normally off, 0-999s can be set by user.
- Auto power off setting: 0-999mins can be set by user.

- In-phase: $\leq 20^\circ$ is considered as in-phase (phase threshold within 0-90°, can be set by user. The system default is 20°.)
- Out-phase qualitative: $> 20^\circ$ (phase threshold within 0-90°, can be set by user. The system default is 20°.)
- Field calibration function: on-site calibration for measured lead, ensure the accuracy of phase angle.
- Transmission distance between handset and X, Y detector: $X \leq 150\text{m}$, $Y \leq 150\text{m}$.
- Multiple mode design, with strong applicability, more safe and convenient.
- Unique human-computer interaction interface, simple operation.
- FCC antenna design, the signal is stronger and easier to penetrate the blocking of wall, door or barrier.
- Double shielding, strong anti-interference, in full accordance with EMC standards.
- Charts and data display, more convenient and easy to read.
- Qualitative measurement, display by sound and light signal.
- Quantitative measurement, real-time display phase angle difference, $\text{error} \leq 5^\circ$.
- Phase sequence calibration, positive phase sequence, negative phase sequence (120° , 240°).