

WPC1000 & WPC2000

Wireless Phase Comparator Kits



WPC1000

The WPC1000 & WPC2000 Wireless Phase Comparator kits utilize a Transmitter module and a Receiver module to determine the Phase Relationship between two energized conductors at the same nominal voltage and frequency, eliminating the need for connecting cables. Kits are designed to comply with IEC 61481 standards for system voltages up to 132kV.

The Transmitter (TX) and Receiver (RX) modules are battery-operated electronic contact devices that provide a clear visible indication of the line's status. They utilize super bright LED lights and a high-intensity buzzer to accurately determine the phase relationship between two points at the same nominal voltage and frequency. This ensures clear indication, even in challenging conditions such as bright sunlight and high background noise.

During voltage checking, the Transmitter unit establishes contact with the live conductor. If the conductor's voltage exceeds the threshold, the Transmitter triggers and initiates the automatic voltage checking sequence. If the line remains live after 5 seconds, both RED LEDs illuminate solid, and the Line Phase Angle transmits to the Receiver.

Features:

- Automatic alarming above threshold voltage as default
- 11kV / 33kV Voltage Range for WPC1000
- 66kV / 132kV Voltage Range for WPC2000
- Positive Indication of phase relationship
- 50m operating range in free air
- Built in self-check facility
- 433.9MHz operating frequency
- Shock and drop resistant
- High impact ABS body
- -25°C to +55°C operating temp range
- Indoor/Outdoor use regardless of weather conditions
- Easy access for battery replacement
- Built in self-check facility
- Self Proving facility
- Various rod adaptors available

Similarly, the Receiver Unit performs Voltage Checking by making contact with the live conductor. If the voltage exceeds the threshold, the Receiver activates and starts the voltage checking sequence. If the line remains live after 5 seconds, the RED LED lights up solidly.

Furthermore, to determine the phase angle shift between the Transmitter and Receiver, certain conditions are considered. An IN PHASE Condition indicates a phase angle shift nominally $\leq \pm 10^\circ$, shown by solid RED and GREEN LEDs and a continuous buzzing sound. However, an OUT OF PHASE Condition indicates a phase angle shift nominally $> \pm 20^\circ$, represented by a solid RED LED.

Please note that each module requires suitable insulating operating rods for safe distance from the HV source to ensure optimal performance.



WPC2000

Note: Due to the company's continuous research programme, the information above may change at any time without prior notification. Please check that you have the most recent data on the product.

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WPC1000 & WPC2000 Kit Details

WPC Receiver

Visual Indication (Safe Condition): 1 Red LED & 1 Green LED

Audible Indication: Buzzer sounding continuously



WPC Transmitter

Visual Indication (Safe Condition): 2 Red LED's



Rod Adaptors

2 x Bowthorpe Rod Adaptors **or**
2 x Universal Star Wheel Adaptors



Contact Electrodes

2 x 40mm Aluminum contact electrodes



Accessories Bag



WPC Switchgear Kit Details

The Wireless Phase Comparator Switchgear Kit amplifies the capabilities of the WPC by enabling High Voltage Phase Comparison in Switchgear cubicles. With the elimination of trailing wires, it minimizes the risk of tripping and fosters a safer testing environment. Moreover, it extends the Phasing distance within rooms, providing greater flexibility during testing procedures.



Black carry bag



Coupled 60° Bent End Adaptors



Operating Handles

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