

S320A

HIGH VOLTAGE WIRELESS PHASE COMPARATOR

AC 1 V–550 kV PHASE DETECTION · UP TO 160 m*



COMPARE PHASES. CONFIRM THE RELATIONSHIP.

Wireless phase comparison for power systems

The S320A presents phase angle, phase sequence, voltage, frequency and a vector diagram together on its color display. X/Y wireless detectors and voice prompts support clear comparison at the test location.

Key Diagnostic Highlights



UP TO 160 m*

Wireless phase-detection distance in an open field.



PHASE & VECTOR

Read phase angle and vector indication on a 3.5-inch color LCD.



VOICE PROMPTS

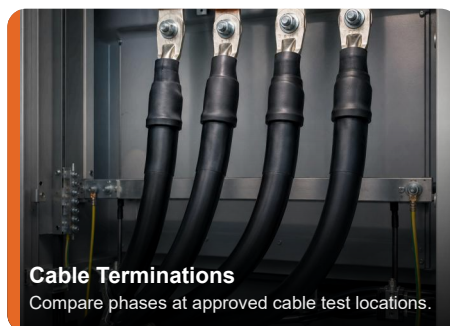
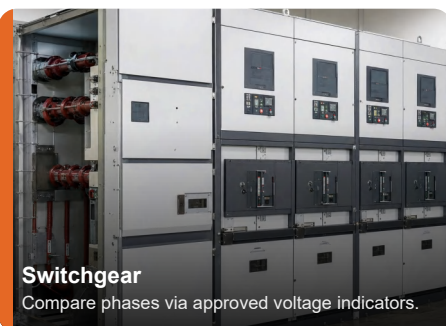
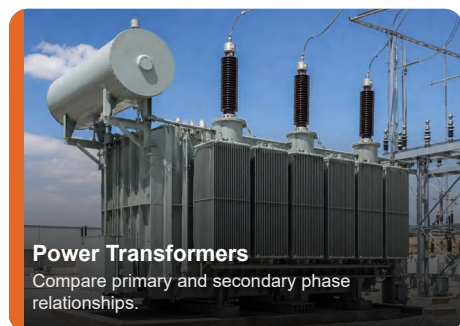
Hear X/Y signal status and in-phase or out-of-phase feedback.



UP TO 9,999 SETS

Hold measurements and review stored records in the field.

Where It Works



* Maximum phase-detection distance stated for an open field.

X/Y Phase Comparison

Choose contact or non-contact detection by conductor construction and voltage.

Manual illustration: two detectors and receiver



Use the approved insulating rods as specified in the manual.

CONTACT

Bare conductors below 35 kV, using the approved insulating rod.

NON-CONTACT

Bare conductors above 35 kV: approach gradually without touching.

LOW-VOLTAGE SIGNAL

Below 100 V, use the auxiliary ground lead if readings are unstable. Do not use it above 100 V.

High voltage is hazardous. Trained and authorized personnel only. Use an insulating rod above 600 V; inspect insulation before testing. Confirm the applicable method for insulated cables with EAGLOTEST.

How to Test — 4 Steps

1

INSPECT

Check the instrument, accessories and insulating rod.

2

POWER ON

Start the receiver and X/Y detectors; confirm signals.

3

COMPARE

Use the correct method and read phase, angle and vector.

4

SAVE

Press HOLD to freeze and store the result.

Technical Specifications

MEASUREMENT

Phase-detection voltage	AC 1 V–550 kV
Phase angle	0.0°–360.0°
Voltage measurement	1–35 kV
Frequency	50–60 Hz
Phase-angle accuracy	≤ ±10°
Voltage accuracy	±15% ±5 dgt, 1–35 kV overhead; ±25% ±5 dgt, other uses
Frequency accuracy	≤ ±2 Hz
Resolution	0.1° · 0.1 Hz · 1 V

Accuracy values are specified at 23 °C ± 5 °C and <80% RH.

GENERAL

Wireless distance	Up to 160 m (open field)
Wireless bands	315 / 433 MHz
Display	3.5-inch color LCD
Memory	Up to 9,999 sets
Sampling rate	2 readings/s
Receiver power	DC 7.4 V · 3,000 mAh Li-ion
Detector power	DC 3.7 V · 1,000 mAh Li-ion
Operating environment	–10 to 40 °C · <80% RH

Safety & Compliance



Designed in accordance with IEC 61010-1

What's in the Box



Receiver &
Antenna



X/Y Detectors
×2



Insulating
Rods ×2



Aluminum
Case



Hooks &
Probes



Calibration &
Auxiliary Lines



Chargers &
Batteries



Manual &
Documents