

## S320A High Voltage Phase Sequence Indicator



- 1V-550kV Phase Sequence Indicator
- Phase Detection Distance: Up to 160m
- Intelligent Voice Feedback
- 3.5-inch true color LCD

### DESCRIPTION

S320A High Voltage Phase Sequence Indicator is a wireless, battery-operated instrument designed to detect the rotary field of three-phase systems and determine phase sequence. This instrument includes a wireless receiver, XY transmitter, and a retractable insulated rod. The receiver uses a 3.5-inch true color LCD screen, which can display the phase sequence results, frequency, and a vector diagram all at the same time. The distance between two cables being measured can be up to 160m on open ground. It can be used on cables with voltage ranges from 10V to 550kV. Not only can the results be received wirelessly, making it convenient to detect cables' sequences that are far apart, it can also be used using the non-contact method. Making it a much safer option for operators dealing with high voltage cables.

### APPLICATION


S320A is designed to detect the rotary field of three-phase systems and determine phase sequence. It can measure frequency, phase sequence, and conduct voltage tests.

### SPECIFICATIONS

<b>Functions</b>	Can be used for both high or low voltage long distance phase sequence detection, phase sequence indication, frequency measurement, and voltage testing.
<b>Power</b>	Receiver: DC 7.4V 3000mAh rechargeable lithium battery Transmitter: DC 3.7V 1000mAh rechargeable lithium battery USB charging port, can work continuously for 10 hours when fully charged
<b>Transmission Method</b>	315MHz and 433MHz wireless transmission
<b>Measurement Distance</b>	Max. 160m
<b>Display</b>	3.5-inch true color LCD
<b>Measurement Range</b>	Phase Detection Voltage Level: AC 1V~550kV Phase: 0.0°~360.0° Voltage: 1kV~35kV Frequency: 45Hz~75Hz
<b>Resolution</b>	0.1°; 0.1Hz; 1V
<b>Accuracy (23°C±5°C, below 80%RH)</b>	Phase Angle: ≤±10° Voltage: ±15%±5dgt (1kV~35kV, high voltage overhead line, other application error ±25%±5dgt) Frequency: ≤±2Hz
<b>Phase Difference</b>	In phase: -30°~30°; out of phase: 90°~150° and 210°~270°
<b>Voice Feedback</b>	Voice such as in phase, out of phase, X signal normal, Y signal normal, etc
<b>Size of Insulation Rod</b>	3.2m long after extended; 0.6m retracted
<b>Data Storage</b>	9999 sets

<b>Measurement Methods</b>	Contact Method: When the bare wire voltage is less than 35kV, or less than 110kV for cables with a safety insulation sheath. Please use the insulation rod Non-Contact Method: When the bare wire voltage is more than 35kV, or more than 110kV for cables with safety insulation sheath. Please use the insulation rod Auxiliary ground cable measurement: if the measurement result is unstable or when the voltage is lower than 100V, connect the auxiliary ground cable to the ground to amplify the signal
<b>Voltage Test Indication</b>	A positive voltage test will be indicated by a "beeping" sound from the transmitter
<b>Measurement Range</b>	The measurement range will be automatically adjusted based on the voltage of the conductor
<b>Sampling Rate</b>	2 times/s
<b>Dimensions</b>	Transmitter: length width and thickness 145mm×60mm×50mm Receiver: length width and thickness 207mm×101mm×45mm
<b>Backlight Brightness</b>	Press the Up or Down Arrow button to adjust the backlight brightness
<b>Power Amplifier</b>	Transmitter automatically amplifies the signal based on strength of the electric field, facilitating the phase-detection in a tightly packed environment
<b>Data Hold</b>	Press the HOLD button while in testing mode to hold the data, and then press the HOLD button again to cancel the function
<b>Exit</b>	Press the ESC button to exit from the current page and return to the previous page
<b>View Data</b>	Press ENTER to view the saved data, and press Arrow buttons to change between saved data sets
<b>No-signal</b>	When the receiver does not receive a signal from the transmitter the "----" symbol will be displayed
<b>Automatic Shutdown</b>	15mins after startup, the instrument will automatically shut down to reduce battery consumption
<b>Battery Voltage</b>	When the battery voltage is low Transmitter: The LED will flash slowly to remind the user to charge the battery Receiver: the low battery voltage symbol will be displayed to remind the users to charge it when possible
<b>Rated Current</b>	Transmitter: 20mA max; Receiver: 200mA max Transmitter: approx. 342g (including battery) Receiver: approx. 450g (including battery) Insulation rod: approx. 0.5kg (1 pc) Total: approx. 5.61kg (including instrument box)
<b>Instrument Weight</b>	
<b>Ideal Working conditions</b>	-10 C ~ 40 C; below 80%RH
<b>Ideal Storage Conditions</b>	-10 C ~ 60 C; below 70%RH
<b>Interference</b>	Avoid strong electromagnetic field and 433MHz or 315MHz signals
<b>Dielectric Strength</b>	Insulation rod: AC 110kV/RMS (between top and bottom when all insulation rods is fully extended) Transmitter: 2000V/RMS (between both ends of outer housing) Receiver: 2000V/RMS (between both ends of outer housing)
<b>Structure</b>	Anti-dripping Type II, IP63
<b>Safety Standards</b>	GB13398-92, GB311.1-311.6-8, 3DL408-91, DL/T971-2005 IEC61481-A2: 2004; IEC 61243-1 ed.2: 2003

### ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S320A High Voltage Phase Sequence Indicator, 1 pc	S320A	<b>Included accessories for S320A</b>	
		Transmitter, 2 pcs (X and Y 1 each)	
		Receiver, 1 pc	
		Antenna, 1 pc	
		Extendable insulation rod, 2 pcs	
		Aluminum case, 1 pc	
		Hook, probe, 4 pcs (2 of each)	
		USB charger, 2 pcs (5V charger)	
		Charging cable, 3 pcs (2 round-hole, 1 mini USB)	
		Lithium battery, 3 pcs (inside the instrument)	
		Self-calibration line, 1 pc	
		Spring type auxiliary grounding wire, 2 pcs	
		User manual, warranty card, certificate of conformity, 1 copy of each	

### SALES OFFICE

Email: sales@eaglotest.com

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