

# S310B Kilovoltmeter



- Test range: AC 0-65KV
- Resolution: 1V
- 3.5-inch true color LCD display
- Wireless transmission distance: 30m
- Insulation Rod length: 3m

## DESCRIPTION

S310B Kilovoltmeter is designed for measuring voltage or conduct voltage tests (inductance tester) for both low-voltage or high voltage cables in environments where it is hard to reach. The instrument makes measurement by detecting the electric field. For cables below 65kV, using the contact method of the instrument, regardless if it is a neutral wire, live wire, ground wire, high-voltage transmission line, a metal conductor, or just some current leakage caused by some insulation damage, as long as there is an electric field, this instrument can detect the signal. Once the transmitter detects the electromagnetic field, it will emit a "beep-beep-beep-" buzzer sound. For cables above 65kV, although it cannot be used to measure the voltage, it can be used as an inductance tester to detect live wires and voltage.

## APPLICATION

S310B can be used for voltage measurement depending on the voltage range. it can measure from 0V to 65kV, however, for cables with 65kV and above, it can only be used as an inductance tester.

## SPECIFICATIONS

<b>Functions</b>	Wireless high voltage measurement, voltage to ground measurement, voltage range, frequency, voltage test, electric field detection, etc
<b>Power</b>	Transmitter: DC 3.7V, 1000mAh rechargeable lithium battery Receiver: DC 7.4V, 3000mAh rechargeable lithium battery
<b>Measure Method</b>	Voltage Measurement: contact measurement, bare wire below 65kV can be hung on the line to measure Voltage Test (Inductance tester): non-contact method, bare wire above 65kV uses non-contact measurement
<b>Transmission</b>	433MHz wireless
<b>Transmission Distance</b>	Approx 100m
<b>Display</b>	3.5-inch true color LCD display
<b>LCD Size</b>	81mm×65mm; display area 67mm×53mm
<b>Metal Hook</b>	The metal hook can hang on cable/wire with an outer diameter smaller than 68mm
<b>Measurement Range</b>	Voltage measurement range: with grounding: 0~65kV; without grounding: 1kV~65kV Voltage to ground: 0~65kV (line voltage = voltage to ground × 1.732) Voltage test range: 0V~500kV (non-contact test if over 65kV) Frequency: 45.0Hz~55.0Hz
<b>Resolution</b>	1V (100V~2000V) 0.01kV (2.00kV~20.00kV) 0.1kV (20.0kV~110.0kV)

<b>Resolution</b>	0.1Hz
<b>Voltage Accuracy</b>	With grounding wire: $\pm 2\% \pm 5 \text{dgt}$ (0 ~ 65kV) Without grounding wire: $\pm 15\% \pm 5 \text{dgt}$ (1kV ~ 65kV)
<b>Frequency Accuracy</b>	$\pm 2 \text{Hz}$ (0.1kV ~ 65.0kV)
<b>Induction Intensity</b>	During high-voltage tests, based on the strength of the induced electric field, the transmitter will automatically adjust the 2KV, 20kV, and 65kV range, which is suitable for densely packed environments. The 2KV range is the default when the instrument is turned on, and the induction is the strongest
<b>Sampling Rate</b>	2 times/sec
<b>Data Save</b>	5000 sets
<b>Insulation Rod Length</b>	Retracted 0.6m, fully extended 4.2m
<b>Earth Wire Length</b>	7 meters
<b>Dimension</b>	Transmitter: 145mm×60mm×50mm Receiver: 207mm×101mm×45mm
<b>Line Voltage</b>	Bare wires below 65kV can be directly contacted for testing; bare wires above 65kV must be tested with the non-contact method; it can also be directly hung on lines with intact insulation over 110kV for testing
<b>Contact Method</b>	When conducting the electrical test: the collector is connected to the metal probe hook or probe, and the metal probe hook or probe needs to be in contact with the bare wire to ensure the accuracy of the electrical test and voltage test
<b>Sound Feedback</b>	When the induction voltage or detected voltage is higher than 20V, the internal buzzer of the transmitter will emit a "beep -- beep -- beep --" sound to warn the user
<b>Data Hold</b>	While testing press HOLD to lock and save data, press the HOLD button again to cancel
<b>View Data</b>	To view data, press the $\uparrow \downarrow \leftarrow \rightarrow$ button to switch between saved data sets in the view data mode
<b>Quit</b>	Press the ESC button quit the current page and return to the menu
<b>No-Signal</b>	The instrument will display the "----" symbol when the receiver does not receive any signal
<b>Automatic Shutdown</b>	Transmitter/Receiver: Power off automatically after 15 minutes of idling to reduce battery consumption
<b>Low Battery Warning</b>	The battery icon shows the real-time power. When the battery voltage is too low, the low battery icon will be displayed to remind charging
<b>Weight</b>	Collector: approx. 180g (with battery) Receiver: approx. 450g (with battery) Total weight: approx. 5.64kg (with battery and insulation rod)
<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>Wireless Interference</b>	No 433MHz same frequency signal interference
<b>Insulation Strength</b>	Insulation Rod: AC 220kv/RMS(Stretched At Both Ends) Transmitter: 2000V/RMS(between the front and back end of the housing) Receiver: 2000V/RMS (between the front and back end of the housing)

### ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S310B Kilovoltmeter, 1 pc	S310B	<b>Included accessories for S310B</b>	
		Collector, 1 pc	
		Wireless receiver, 1 pc	
		Metal hook and probe, 1 pc each	
		Insulation rod, 5 sections	
		Earth ground wire/rod, 1 set	
		Tool box, 1 pc	
		Charger, 2 pcs	
		Li-battery, 2 pcs (in device)	
		User manual, Warranty card, Certificate of Conformity, 1 copy of each	

### SALES OFFICE

Email: [sales@eaglotest.com](mailto:sales@eaglotest.com)

Tel: (852) 2947 1888

Add: 11F/, Long To Building, 654-656 Castle Peak Road,  
Lai Chi Kok, Kowloon, Hong Kong.

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