

S390 High Voltage Phase Sequence Tester

FEATURES



Intelligent voice feedback
1V-550kV Phase Sequence Comparator
GPS Timing, can be used in environments with no signal
Phase comparison distance up to 500km, virtually not restricted by distance
Can be used both outdoor & indoor



SPECIFICATIONS

Functions	Designed for ultra-long distance phase sequence detection/indication and comparison between 2 cables using GPS time, can also be used to measure frequency, phase angle, and voltage test.
Power	Receiver: DC 7.4V, 3000mAh rechargeable Li-battery
	Detector: DC 3.7V, 1000mAh rechargeable Li-battery
	USB charging port
Test Modes	GPS Mode, Synced Mode & Local Mode
Transmission Method	315MHz, 433MHz wireless transfer
Distance	GPS Mode distance is not limited, can X & Y set can be more than 500km
	Local Mode distance X & Y set can be up to 160m apart
Display	3.5-inch true color LCD display
Measurement Range	The Voltage of Conductor: AC 1V to 550kV
	Phase Angle: 0° to 360°
	Frequency: 45Hz to 75Hz
Resolution	1°; 0.1Hz
Accuracy (23°C±5°C, below 80%RH)	GPS & Synced Mode: $\leq \pm 5^\circ$
	Local Mode: $\leq \pm 10^\circ$
	Frequency: $\leq \pm 2\text{Hz}$
Phase Difference	In-phase: X & Y angle difference at 0° to 30°
	Out of phase: X & Y angle difference at 90° to 120° or 210° to 270°

Voice Feedback	Voice notification: In phase, Out of phase, X signal normal, Y signal normal
Time Sync Duration	Using Synced Mode, once the instrument has established connections with the satellites, the instrument is able to stay in sync with the satellites for more than 30 minutes, this meets the needs for underground and mines or environments without signal
Insulation Rod Length	Fully extended length approx. 5m; retracted length approx. 1m
Phase Detection Method	Contact Method: Bare wire of 35kV or below and 110kV or below for cables with insulating sheath, (please conduct testing with insulation rod)
	Non-contact Method: Bare wire of 35kV and above or 110kV and above for cables with insulating sheath. (please conduct testing with insulation rod)
Voltage Test Indication	A positive voltage test will be indicated by a “beeping” sound from the transmitter
Measurement Range	The measurement range will be automatically adjusted based on the voltage of the conductor
Sampling Rate	2 times/sec
Satellite-Connecting Time	The first time it takes about 3 minutes to search for satellites, then the second time takes about 30sec. If it is a warm start, it should take about 1 second. The transmitter should be put placed level facing upward while searching for satellites
Time Variations	Less than 30nS
Instrument Dimensions	Transmitter: LWT 147mm×60mm×50mm
	Receiver: LWT 207mm×101mm×45mm
Power Amplifier	Transmitter automatically amplifies the signal based on strength of the electric field, facilitating the phase-detection in a tightly packed environment
Data Hold	Press the HOLD button while in testing mode to hold the data, then press the HOLD button again to cancel the function
Satellite Searching Indication	The “----” symbol will be displayed when the instrument is searching for satellites
Automatic Shutdown	30 mins after startup, the instrument will automatically shut down to reduce battery consumption
Rated Current	Transmitter: 35mA max Receiver: 300mA max
Battery Voltage	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
Weight	Transmitter: approx. 344g (including battery) Receiver: approx. 909g (including battery) Insulation rod: approx. 1.45kg Total: approx. 7.188kg (including instrument box)

Interference	This instrument will not produce a strong electromagnetic field or cause any interference to 433MHz or 315MHz or signals
Dielectric Strength	Transmitter: 2000V/RMS (between insulation rod attachment point to the top of the transmitter)
	Receiver: 2000V/RMS (between the two ends of the housing)
	Insulation rod: AC 110kV/RMS (between the two ends, fully extended)
Safety Standards	GB13398 92, GB311.1 - 311.6 - 8, 3DL408 91 standard and national new electric power industry-standard
	Ideal for IEC61481 – A2: 2004; IEC 61243 – 1 ed.2: 2003 standard



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