

HVT-2800



Trusted Testing from 70 V to 550 kV

The HVT-2800 High Voltage Phase Tester is a compact, precise instrument designed for phase verification, phase sequence testing, and voltage measurement in high-voltage power systems. Using contact and non-contact methods, it provides clear phasor diagrams and numerical results on its bright LCD display. With wireless transmission, built-in storage, and robust insulation, the HVT-2800 ensures fast, safe, and reliable testing for utilities, substations, and industrial maintenance teams.

Key Features

- Contact and non-contact phase detection methods
- Measures from 70 V to 550 kV
- Wide phase range 0° – 360° with 0.1° resolution
- Frequency measurement 45–65 Hz with high accuracy
- Voltage measurement up to 110 kV ($\pm 10\%$ accuracy)
- Wireless data transmission up to 30 m
- 3.5-inch colour LCD with phasor diagram and numeric display
- Data storage for 300 groups with recall
- Audio-visual alarms and flashing light for work safety
- Automatic shutdown after 15 minutes of inactivity
- Robust insulation rod, withstands up to AC 220 kV
- Compact and lightweight for field use

Ideal for

- High-voltage substations
- Transmission line maintenance
- Transformer testing

www.gpslimited.com/HVT-2800
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High Voltage Phase Tester

Technical Specifications

HVT-2800 High Voltage Phase Tester	
Phase Detection Method	Contact detection (≤ 35 kV bare / ≤ 550 kV insulated) or non-contact (≥ 35 kV)
Measurement Voltage	70 V – 550 kV
Phase Range	$0.0^\circ - 360.0^\circ$; Accuracy $\leq \pm 12^\circ$; Resolution 0.1°
Frequency Range	45.0 – 65.0 Hz ; Accuracy $\leq \pm 2$ Hz ; Resolution 0.1 Hz
Voltage Measurement	70 V – 110 kV ; Accuracy $\pm 10\%$; Resolution 100 V
Differential Characterisation	In-phase: -25° to $+25^\circ$; Out-of-phase: $95^\circ-145^\circ$ and $215^\circ-265^\circ$
Transmission	Wireless, straight-line up to 30 m
Transmission Frequency	433 MHz / 315 MHz
Display	3.5" colour LCD, 72 * 55 mm ; Phasor diagram + numeric display
Data Storage	300 groups ; "FULL" symbol indicates memory full ; data recall supported
Alarm	Audio/visual alarm if measured value exceeds threshold
Work Instructions	Red double-flashing light + audible "beep" alert
Auto Shut-Down	After ~15 minutes inactivity

Standard Accessories

- HVT-2800 main unit
- High-voltage detector
- Insulation rod (3 m)
- Batteries
- Carrying case
- User manual and warranty certificate



Power Supply

Detector: 30 mA max ; Host: 150 mA max ;
Battery powered (5 x LR6, 2 x 6F22)

Insulation Rod

$\Phi 38$ mm max, length 3 m ; Withstand AC
220 kV rms

Dielectric Strength

Host/Detector: AC 3700 V rms (metal to
casing)

Standards Compliance

GB13398-92, GB311.1-311.6-8, DL408-
91, DL/T971-2005

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
HVT-2800	High Voltage Phase Tester, 70 V – 550 kV, LCD display, wireless data transmission	982800

Mass

Instrument 450 g (incl. battery)

Dimension

Host: 187 x 119 x 48 mm ; Detector: 146 x 100 x 75 mm

Operating

-10°C to $+40^\circ\text{C}$, $\leq 70\%$ RH

Storage

-20°C to $+60^\circ\text{C}$, $\leq 80\%$ RH

Services

1-year warranty (subject to product
registration with GPS Ltd)
Please contact for more information.

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