

S456 Automatic Turns Ratio Tester



FEATURES

90V AC Test Voltage
Accuracy $\pm (0.1\% \text{rdg} + 3 \text{dgt})$
Ratio + Phase Angle + Polarity + Tap on One Screen
500-Record Internal Memory + Auto Save
Apps and Computer Software Control & Export Report
Reverse connection & Short-Circuit Protection



Measurement

Ratio	0.9000 to 10,000
Accuracy	0.9000 to 9.9999: $\pm (\text{reading} \times 0.1\% + 3 \text{dgt})$
	10.000 to 99.999: $\pm (\text{reading} \times 0.1\% + 3 \text{dgt})$
	100.00 to 999.99: $\pm (\text{reading} \times 0.2\% + 3 \text{dgt})$
	1000.0 to 9999.9: $\pm (\text{reading} \times 0.3\% + 3 \text{dgt})$
Resolution	0.9000 to 9.9999:0.0001
	10.000 to 99.999:0.001
	100.00 to 999.99:0.01
	1000.0 to 9999.9:0.1
Display Info	Phase Angle / Polarity / Tap
Vector Group Test	Supported (3-phase, single-phase, Z-type transformers, CT, PT)
Tap Positions	1 to 197

Output

Output Waveform	Three-phase sinusoidal inverter power supply
Test Voltage	90V AC
Current	90mA
Frequency	50Hz
Protection	Reverse connection protection and output short-circuit protection

Interfaces & data

Data Storage	Up to 500 records
USB Export	Saved results export via USB flash drive
Wireless Workflow	Bluetooth connection to Mobile App for remote measurement control
PC Connectivity	PC software supports control and data review, export excel report
Printing	Connect to a Bluetooth printer to print current results or saved records

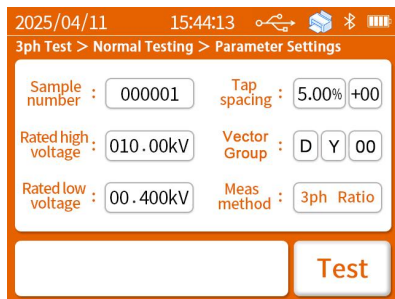
Mechanical & Environmental

Dimensions (WxDxH)	Approx. 320 × 275 × 145 mm
Instrument Weight	Approx. 3.5 kg (incl. battery)
Total Weight	Approx. 6.7 kg
Test Leads Length	5m
Operating Environment	-10°C to 60°C; 0–90% RH, non-condensing
Storage Environment	-10°C to 60°C; 0–75% RH

Compliance

Safety	IEC 61010-1
IP Rating	IP54
Calibration & Traceability	Calibrated by ISO/IEC 17025 accredited laboratory

Interface



Setting

Phase	Measured Turns Ratio	Turns Ratio Error
AB/ab	25.002	0.01 %
BC/bc	25.002	0.01 %
CA/ca	25.001	0.00 %

Vector Group: Y-d-11 Tap position: 02

Result



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