

S456 PRO Turns Ratio Tester



FEATURES

Selectable AC test voltages: 4, 10, 40 and 90 V
Best accuracy: $\pm(0.1\% \text{ rdg} + 3 \text{ dgt})$; see ranges below
Ratio + Excitation Current + Phase Angle + Tap Measurement
500 Record Internal Memory + Auto Save
Apps and Computer Software Control & Export Report
Reverse connection & Short-Circuit Protection



Measurement

Ratio	0.8000 to 10,000
Excitation Current	0.01 mA to 1000 mA
Angle difference	0.0° to 360.0°
Accuracy	0.8000 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	0.8000 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	Ratio / Excitation Current / Phase Angle / Polarity / Tap
Vector Group Test	Supported (3-phase, single-phase, Z-type transformers, CT, PT)
Tap Positions	1 to 197
Output Waveform	Three-phase sinusoidal inverter power supply
Test Voltage	4V, 10V, 40V, 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

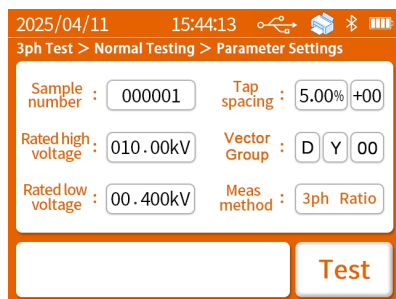
Mechanical & Environmental

Dimensions (W×D×H)	Approx. 320 × 275 × 145 mm
Instrument Weight	Approx. 3.5 kg (incl. battery)
Total Weight	Approx. 6.7 kg
Test Leads Length	10m
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

3ph Test > 3ph Ratio > test results				
Phase	Turns Ratio	Ratio Error	mA	θ°
H1H2/ X1X2	25.002	0.01 %	36	34
H2H3/ X2X3	25.002	0.01 %	36	34
H3H1/ X3X1	25.002	0.01 %	36	34
Vector Group: Y-d-01		Test Voltage: 90 V	Tap Position: 01	
Continue Testing		Print Data	Saved Data	Turns Ratio

Result



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