

ART-3D™

Transformer Turns Ratio Tester

The ART-3D™ series of ratio meters are high-precision instruments, designed to measure turn ratios, phase displacements, excitation currents of single phase and three phase power, distribution and instrument transformers in conformity with IEEE C57.12.90 & IEC 60076 standards.

Highlights

- Real 3 Phase Output up to 275V
- Very High Accuracy 0.03%
- Primary, Secondary, Tertiary in 1 test
- Onboard LTC Wizard
- Fully Automatic LTC Test Sequence
- Tests all Transformer Configurations
- Automatic Vector Group Detection
- High Performance Anti-Induction

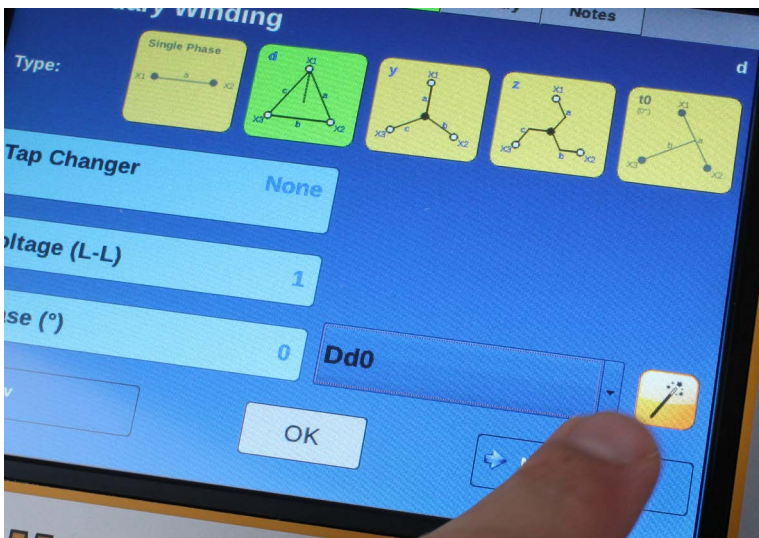


ART-3D™, Ultimate Ratio Tester

- This is no ordinary turns ratio tester. This is top-of-the-line, well-thought and high precision manufactured instrument
- Finally able to match field results with those of manufactures
- Enhanced ease-of-use design. User manual will seem optional
- Worldwide renowned innovative solutions

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Auto Vector Group Detection

Automatic detection of transformer vector groups



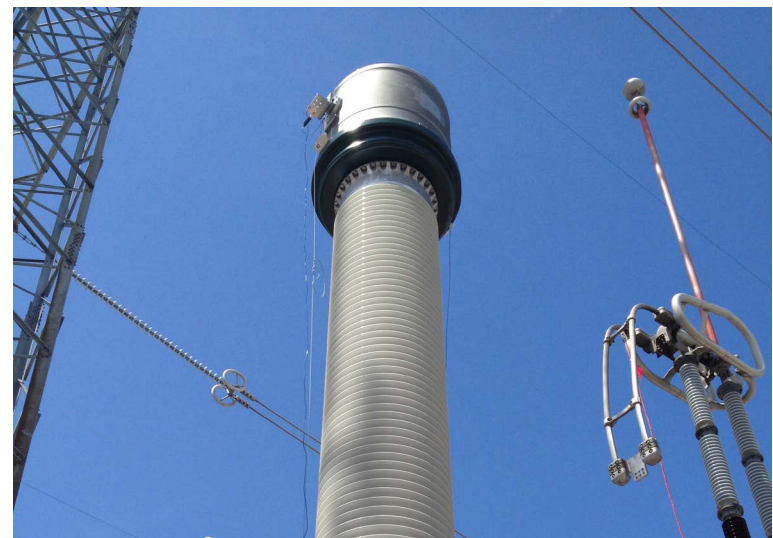
Quick Result Interpretation

Unique graphical display of complete test results in one screen



Primary Secondary Tertiary in one shot

Primary, secondary & tertiary all in one single test. No need to relocate test leads



Anti-Induction Mode

Powerful anti-induction mode eliminating interference from nearby energized apparatus.



Intuitive Touchscreen Display

Intuitive menus similar to transformer nameplate, editable directly on the display, works with gloves



Full LTC Control

Configurable tap change control pulses. Run Through all tap changes without pressing a single button

Technical Specifications

Ratio Accuracy	275V	100V	40V	8V	1V
0.6 (*0.8) 100:1	*0.03	0.05%	0.05%	0.05%	0.10%
100 - 1000:1	0.03%	0.05%	0.05%	0.05%	0.30%
1000 - 5000:1	0.03%	0.10%	0.05%	0.10%	-
5000 - 10000:1	0.20%	0.20%	0.20%	-	-
10000 - 50000:1	0.30%	0.30%	-	-	-
Ratio Range	0.6 to 50000				
Test voltages	1V, 8V, 40V, 100V, 275V				
Power input	100V to 265V, 45 to 65Hz				
Phase angle range	± 180 degrees				
Phase angle accuracy	± 0.05 degree				
Phase angle resolution	± 0.01 degree				
Magnetizing current range	Up to 2000 mA				
Magnetizing current accuracy	± 1% of reading + 1 digit				
Data Storage	> 10 000 test files				
Display	Backlight 6.5" LCD, 640x480, Ultra high brightness, sunlight readable (1000 nits), Touchscreen				
Data displayed	<ul style="list-style-type: none"> • Vector group, phase, tap position, ratio, ratio deviation, phase angle displacement, excitation current, pass-fail results • Up to 3 test files can be loaded simultaneously for comparison • Graphical and tabulated representation of test results 				
Transformer Standards	ANSI, IEC, Australian				
Test Standards	IEEE C57.12.90 and IEC 60076				
Interface Language	English, French, Polish, Portuguese, Spanish, Turkish, Vietnamese & German				



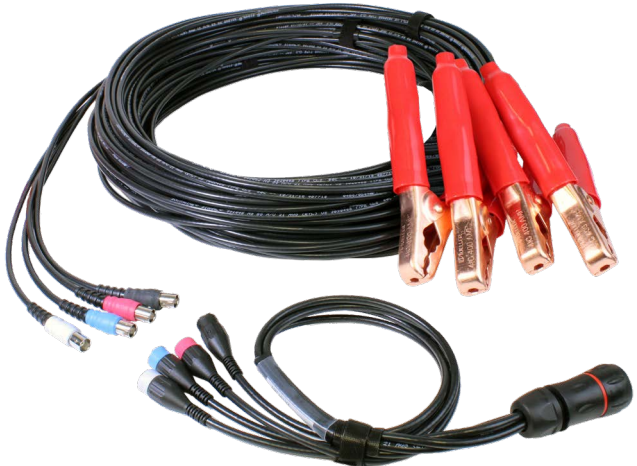
PC Software / Remote Control

Wired or wireless remote control. Zero learning curve PC Software



Flexible Data Management

Test plans and tests results are easy to create, load and save to internal memory or external USB device. PDF reports can be automatically generated. Exchange reports and tests plan from an ART-3D™ to another. XML format available for database integration.



Convenient Test Leads Setup

Individual detachable test leads for convenient connections and storage.