

THE WORLD'S ONLY PROVEN LOW-FLUX INSTRUMENT
FOR EVALUATING STATOR CORES



Iris Power EL CID Evolution™

The next generation in EL CID technology
for detecting stator core problems

Iris Power EL CID has achieved world-wide acceptance as the most consistent and a reliable method of detecting stator core inter-laminar insulation breakdown in large electrical machines, such as turbo and hydro generators and large motors, without any risk to the machine or user.

Iris Power EL CID offers the most cost-effective and safe way to test the condition of a stator core in less time than any other techniques.

The benefits of the product have ensured world-wide acceptance of the technique, providing more consistent and reliable information on the condition of stator core insulation in less time and lower cost than any other commercially available system.



BASIC SYSTEM COMPONENTS

- Iris Power EL CID Evolution Instrument
- Chattock Sensors (10, 20, 25 and 30 cm)
- Reference Sensor
- Extension Leads
- Magnetic Manual Trolley
- Calibration Unit
- Switched Excitation System
- Volt Meter and Clamp-on Ammeter
- Adjustment Tools and Measuring Tape
- Laptop Computer
- ELAN CD with Software Licence
- Handbook
- System is delivered in two Wheeled Transit Cases

RELATED PRODUCTS AVAILABLE

- RIV-702 Robotic Inspection Vehicle
- RIV-752 Camera
- Rotor-in-place and Hydro Excitation Systems
- Low Profile and non-standard Chattock Sensors

RIV-752 Camera

The RIV-752 camera fits the Robotic Inspection Vehicle. The camera provides visual inspection of stator and rotor and RIV alignment during rotor-in-place testing. The assembly features a built-in light and a 45° mirror, which can be remotely rotated through 360° to allow scanning of the stator and rotor, as well as viewing along the gap.

RIV-702 Robotic Inspection Vehicle

The RIV-702 Robotic Inspection Vehicle reduces operator fatigue, produces more consistent results and can be used for rotor-in-place testing.

IRIS POWER OFF-LINE PRODUCTS

IRIS POWER EL CID EVOLUTION™

OPERATION SPECIFICATIONS

Power Supply	85 – 264 VAC, 50/60 Hz, 15W
Battery Operation	4 hours from full charge, 12-14 hours recharge
Chattock Inputs	Two 100 μ V/A nominal @ 50 Hz Ranges 0.4A/4.0A/40A fsd
Reference Input	2 mV to 2V auto-range, agc settle <3s 2 mV/A sensor nominal
Frequency range	48 – 62 Hz
Phase Resolution	$\pm 0.01^\circ$
Calibration	50/60 Hz 1A calibrator, $\pm 0.3\%$
Signal Accuracy	$\pm 0.5\%$ signal $\pm 0.2\%$ range (20°C)
X-Axis Measurement	Magnetic Trolley or RIV-702 from 0.01-10 mm/pulse
Display	145 mm color LCD, backlit
Communication and Data Storage	USB to PC Data is stored in open XML file format
Software	ELAN V4 software supports the testing of all or part of a core, with retesting where required. Full screen display shows test progress and results. Analysis mode provides trace inspection in Zoom and Comparison modes, plus an Overview capability
Computer	Requires laptop PC, Windows XP or later, 32 bit OS
Switched Excitation System	0 – 250 V input 2 - 6 turns @ 32A/20A per turn max 1 x 10 m & 1 x 20 m cables
Environmental	Operating: 0 to +50°C Storage: -20°C to +60°C Relative Humidity: 0 to 95%, non-condensing
Compliance	EMC: EN61326-1 Class A Safety: EN61010-1 Transport: EN60721 & EN60068 (part) CE marked
Instrument Size and Weight	438 x 226 x 411 mm (WxHxD), 7 kg 17.2" x 8.9" x 16.2", 15.4 lb
Transit Case Size and System Weight	560 x 580 x 350 mm (x2); 49 kg (23 + 26 kg) 22.0" x 22.8" x 13.9", 108 lb (51+ 57 lb)

ORDER

Part Nr.	Description
EL603	EL CID portable instrument for core testing. Includes turbo excitation kit, manual, chattocks, carrying case and software.
OPTIONS:	
EL003	Hydro generator excitation system with carrying case
EL702	Robotic inspection vehicle RIV 702 including two 30cm flat chattocks, signal processor unit, tractor vehicle, manual and carrying case
EL305	Rotor-in excitation kit including a 20m flat excitation cable and a stator termination box
EL752	Camera system RIV-752 including rotary view color camera, control box with LCD monitor, and carrying case

For other options, contact your sales representative

Iris Power EL CID Evolution is a trademark of Qualitrol-Iris Power.

QUALITROL-IRIS POWER HAS BEEN THE WORLD LEADER IN MOTOR AND GENERATOR WINDING DIAGNOSTICS SINCE 1990, PROVIDING A FULL LINE OF ON-LINE AND OFF-LINE TOOLS, AS WELL AS COMMISSIONING AND CONSULTING SERVICES.



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