

Iris Power RFAII

Periodic On-line Rotor Flux Analyzer

A second generation advanced tool to find rotor winding shorted turns, during service, in round rotor motors and turbo generators and in salient pole motors and hydro generators

The portable Iris Power RFAII analyzer is intended for on-line detection of shorted rotor turns on salient pole rotors (Iris Power RFAII-S™) and round rotors (Iris Power RFAII-R™). In addition to manual measurements, the Iris Power RFAII analyzer is capable of stand-alone data acquisition once it is configured, i.e. without a connected computer, and the collected measurements are saved in its internal memory. The analyzer is compact, simple to use, and user-friendly, while maintaining high resolution and powerful algorithms.

SPECIFICATIONS

POWER SOURCE

- Voltage: 115/230 V, 50/60 Hz
- Consumption: <100 W

COMMUNICATIONS

- USB Port (type B connector), Ethernet Port (RJ45 connector)

FLUX SIGNAL INPUTS

- Connectors:
- BNC for both single ended (1) or differential flux signals (2)
- 8-pin, polarized, for integrated flux and sync sensor signal (combination probe)
- Signal range: 0.3 V to 48 V
- Impedance: 10 kΩ

SYNCHRONIZATION INPUTS

- Sync Sensor
- Connector: BNC (1)
- Impedance: > 10 kΩ
- Range: 1- 24 V peak
- Combination probe (see Flux inputs)
- External ac sync
- Connectors: banana jack (2)
- Range: 50 Vac to 237 Vac



OTHER FEATURES

- Accepts Iris Power TFProbe™ and FFProbe™ as well as other flux sensors.
- Compatible with Iris Power FluxTracII™ continuous monitors.

IRIS POWER RFAII

ENVIRONMENTAL CONDITIONS

- Temperature (operating/storage): 0 °C to 40 °C/-20 °C to 50 °C
- Relative humidity: <90 % non-condensing

FLUX DATA ACQUISITION

	RFAII-R	RFAII-S
Number of rotor poles	Up to 4	4 to 128
Time per measurement	5 s	30 s
Number of measurements (internal memory)	180	300
Measurement mode		
Manual	✓	✓
Based on time	✓	✓
Spin pit	✓	
Based on load	✓	
Digitizer: high-speed, > 80 dB SNR	✓	✓
Measurements at any load	✓	✓

SYNC SENSOR DATA ACQUISITION

- Targets per revolution Iris Power RFAII-R: 1
- Targets per revolution Iris Power RFAII-S: 3 (0°, 60°, and 180°), for reversible pump-turbines; 1, otherwise

SOFTWARE

- Iris Power RotorFluxPro™ software for configuration, downloading, and analysis (included with instrument)
- Runs on any computer with MS Windows XP SP3 or later operating system
- Signal simulation utility (included with software)

CASE

- Protection: IP67
- Latches: 2 (lockable double throw)
- Drop test: up to 2 m
- Certifications: MIL C-4150J, RoHS, ATA 300, Def Stan 81-41/STANAG 4280
- Weight, approximate: 7.5 kg (16 lb)
- Dimensions: 470 mm (18.5") x 357 mm (14.06") x 176 mm (6.93")

CE marked

ORDER

Part #	Description
M1300	RFAII-R portable flux analyzer for detecting shorted turns in round rotor machines. Includes user manual and connection cables, software and carrying case.
M1310	RFAII-S portable flux analyzer for detecting shorted turns in salient pole machines. Includes user manual, connection cables, software and carrying case.
M1320	RFAII-RS portable flux analyzer for detecting shorted turns in round rotor and salient pole machines. Includes user manual, connection cables, software and carrying case.
C0010	Modular on-site training seminar. Travel time and expenses are extra.

For other options, contact your sales representative.

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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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