

Iris Power Magnetic Flux Probes

To detect rotor winding shorted turns

The Iris Power TFProbe™ and Iris Power FFProbe™ measure the air gap flux rate of change to detect shorted rotor winding turns in synchronous motors, hydrogenerators, and turbine generators. The probes, when connected to the portable Iris Power RFAII™ instrument, the Iris Power FluxTracII™ continuous monitor, or the Iris Power GuardII™ monitor with Flux Add-On, allow the user to monitor the health of motor and generator field windings on-line, periodically or continuously.

IRIS POWER TFProbe™



The Iris Power TFProbe has been primarily designed for hydrogenerators and other salient pole machines. This probe can also be used in round rotor machines with air gap size less than 50 mm. The probe sensing element is a small printed board (12 mm wide, 25 mm long, 4 mm thick) which is affixed to a stator tooth with epoxy. In many machine designs, it is even possible to install the probe without removing the rotor – a definite advantage in retrofit applications.

IRIS POWER FFProbe™

The Iris Power FFProbe is used in turbine generators with an air gap size 50 mm and over. The probe is installed with the rotor out and affixed to a stator wedge with non-metallic pins. The probe height is customized. The probe has a foldable layout to facilitate the rotor introduction without damaging the probe.



Probe appearance may vary.

FLUX PROBE INSTALLATION KIT

- Flux probe with attached shielded, twisted-pair, heat resistant cable (15 m long)
- Termination box (148 mm x 94 mm x 151 mm)
- Fixing material and grounding cable

Iris Power TFProbe, Iris Power FFProbe, Iris Power RFAII, Iris Power FluxTracII and Iris Power GuardII are trademarks of Qualitrol-Iris Power.

ORDER

M1511: TFProbe kit for air cooled salient pole machines with an air gap size less than 50mm. Includes TFProbe with a 15.2m probe cable, fiberglass termination box, sync sensor, epoxy and installation guide.

M1513: TFProbe kit for air cooled round rotor machines with an air gap size less than 50mm. Includes TFProbe with a 15.2m probe cable, fiberglass termination box, epoxy and installation guide.

M1521: TFProbe kit for hydrogen cooled machines with an air gap size less than 50mm. Includes TFProbe with a 15.2m probe cable, SMA-twisted pair adapter, hydrogen penetration kit, termination box, epoxy and installation guide.

M1515: FFProbe kit for air cooled round rotor machines with an air gap size 50mm and over. Includes FFProbe with a 15.2m probe cable, fiberglass termination box, epoxy and installation guide.

M1538: FFProbe kit for hydrogen cooled machines with an air gap size 50mm and over. Includes FFProbe with a 15.2m probe cable, SMA twisted pair adapter, small hydrogen penetration kit, termination box, epoxy and installation guide.

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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