

## SENSORS

### Epoxy Mica Capacitors



Sensors to detect partial discharge activity in electrical equipment on-line and off-line

### Stator Slot Couplers

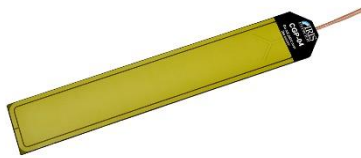


Sensors to detect stator winding partial discharge in large operating turbine generators

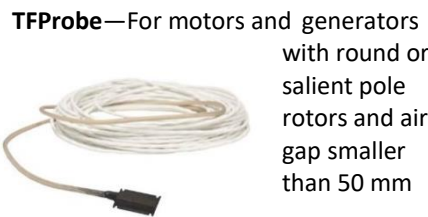
**EVAII fiber optic accelerometer** to detect stator endwinding vibration



**Air Gap Sensor** to measure air gap between rotor surface and stator core



**Flux Probes** to detect shorted rotor winding turns via magnetic flux



**TFProbe**—For motors and generators with round or salient pole rotors and air gap smaller than 50 mm

**FFProbe**—For turbine generators with over 50 mm air gap



## CONTINUOUS ON-LINE MONITORING

### FluxTracll-R™ & FluxTracll-S™



Continuous monitor for shorted turns in salient-pole and round rotor windings

### MDSPTracll™



Continuous monitor for shorted turns in salient-pole and round rotor windings

### AGTracll™



Monitor the air gap between the rotor and the stator in hydro generators

### Tracll™ Monitors for Partial Discharge



Continuously monitor and provide alert on high partial discharge activity in motors, dry type transformers, IPB and switchgear

Three models:

PDTracll - Motors, dry type transformers

MarineTracll - Off-shore and ship motor and generators

MCPDTracll – Multiple sensor sets on long bus-bars, as in switchgear and IPB

### GuardII™ Systems



Continuous monitoring platform to monitor up to 3 conditions:

- High resolution PD for stators
- Stator endwinding vibration
- Shorted rotor turns using magnetic flux
- Shaft voltage and current

### CoDiS Machine Condition Monitoring System



Real time monitoring and alarming system of air gap, vibration, transient conditions and power quality, with comprehensive analysis tools

September 2018

## PORTABLE ON-LINE INSTRUMENTS

### PDA-IV™ & TGA™



Portable instruments to perform partial discharge tests on motors, generators, dry type transformers, switchgear and IPB on-line and off-line

### RFAII-R™ & RFAII-S™



Portable instrument to detect rotor winding insulation problems in round and salient pole rotors in generators and synchronous motors

### MDSP3™



Portable instrument to detect motor rotor cage winding faults and air gap eccentricity

## OFF-LINE TEST INSTRUMENTS

### EL CID™ Evolution



Detects and records shorted stator core laminations

### Stator Wedge Analyzer™



Objectively tests stator winding wedge tightness

### RIV 800 & Camera System



Robotic inspection and core testing vehicle with rotor in place

### PPM 97™



Detects partial discharge location in rotating machine stator windings

### DCR-60™



Tests stator windings with this accurate, ramping direct high voltage test to 60 kV

### PDAlert™



Measures partial discharge caused by voltage impulses with short rise time

### PowerMaxx™



Customized mobile high voltage test system up to 60 kV ac, including transformer

### DeltaMaxx™



Compact digital loss factor and capacitance analyzer with optional PD module, up to 50 kV ac

### DRA3™



Dielectric Response Analyzer measures polarization and depolarization currents  
Tests up to 10 kV dc

September 2018