

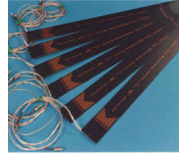
## SENSORS

### Epoxy Mica Capacitors



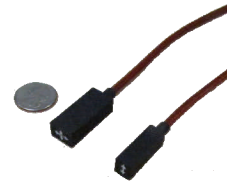
Sensors to detect partial discharge activity in electrical equipment on-line and off-line

### Stator Slot Couplers



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

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



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



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

**TFProbe**—For motors and generators with round or salient pole rotors and air gaps <50mm



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



## CONTINUOUS ON-LINE MONITORING

### AGTracll™



Monitor the air gap between the rotor and the stator in hydrogenerators

### EVTracll™



Continuous monitor for stator endwinding vibration

### FluxTracll-R™ & FluxTracll-S™



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

### Tracll™ Systems for monitoring PD



Continuously monitor and alarm on high partial discharge activity in motors and generators.

Three models:

PDTracll—motors

BusTracll—turbogenerators

HydroTracll—hydrogenerators

MarineTracll—off-shore and ship motors and generators

### Guardll™ 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

### SMTracll™



Continuous monitor for shaft voltage and current levels in motors and generators.

August 2015

## PORTABLE ON-LINE INSTRUMENTS

### PDA-IV™ & TGA™



Portable instruments perform partial discharge tests on motors and generators on-line and off-line

### RFAII-R™ & RFAII-S™



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

### MDSP3™



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

## OFF-LINE TEST INSTRUMENTS

### EL CID™ Evolution



Detect and record shorted stator core laminations

### Stator Wedge Analyzer™



Objectively test stator winding wedge tightness

### RIV & Camera



Robotic inspection and core testing with rotor in place

### PPM 97™



Detect partial discharge location in rotating machine stator windings

### DCR-60™



Test stator windings with this accurate, DC ramp direct high-voltage test to 60 kV

### PDAIert™



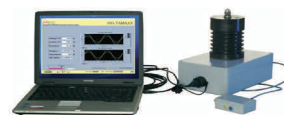
Measure partial discharge caused by short risetime voltage impulses

### PowerMaxx™



Customized mobile high voltage test systems 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-depolarization current. Test up to 10 kV DC

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