

RMM-Series

Dynamic Ratings

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Monitoring Solutions for Generation



Mitigate Catastrophic
Failures



Reduce the Risk of
Unplanned Outages



Delay Asset Replacements
by Extending Their Life

RESPONSIVE

ASSET HEALTH SOLUTIONS

Generator Monitoring



RMM Monitor

The Rotating Machine Monitor (RMM) helps industrial facilities improve reliability, leading to increased uptime and maintenance savings. We design, manufacture and integrate innovative sensors, monitors, and controls for data collection, analysis, and diagnostics. With the use of our asset management tools, our customers realize maximum benefit from online and partial discharge monitoring.

The Rotating Machine Monitor (RMM) is a continuous partial discharge monitor, which also monitors, stores, and correlates operating dynamics of generator. The RMM provides information as to the health of the stator winding insulation in generators and may also be used on medium to high voltage motors and variable frequency drives.

Sensors for Partial Discharge Monitoring



Coupling Capacitors

The Coupling Capacitor is a versatile partial discharge sensor commonly used to detect partial discharge in many applications including generators, motors, switchgear, iso-phase bus ducts, and transformers. We offer three voltage levels: 8, 16, and 28 kV.



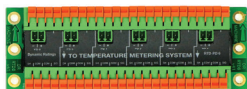
GPCS Sensor

The Ground Path Current Sensor (GPCS) provides non-invasive, directionally sensitive partial discharge detection in electrical equipment. It is designed to detect high frequency currents induced on the grounded surfaces of HV components.



Bushing Sensors

The Bushing Adapter Unit (BAU+) bushing sensors have over 50 custom adapters to choose from for various test tap styles. BAU sensors have a robust, environmentally harden designed rated to IP-67 specifications with three layers of protection built-in with a safety factor of two.



RTD-PD Sensor

The RTD-PD Sensor Module detects the partial discharge activity that occurs deep within the windings of a generator or motor. This sensor expands the zone of coverage for a more comprehensive view of the true condition of the machine windings.



RFCT Sensor

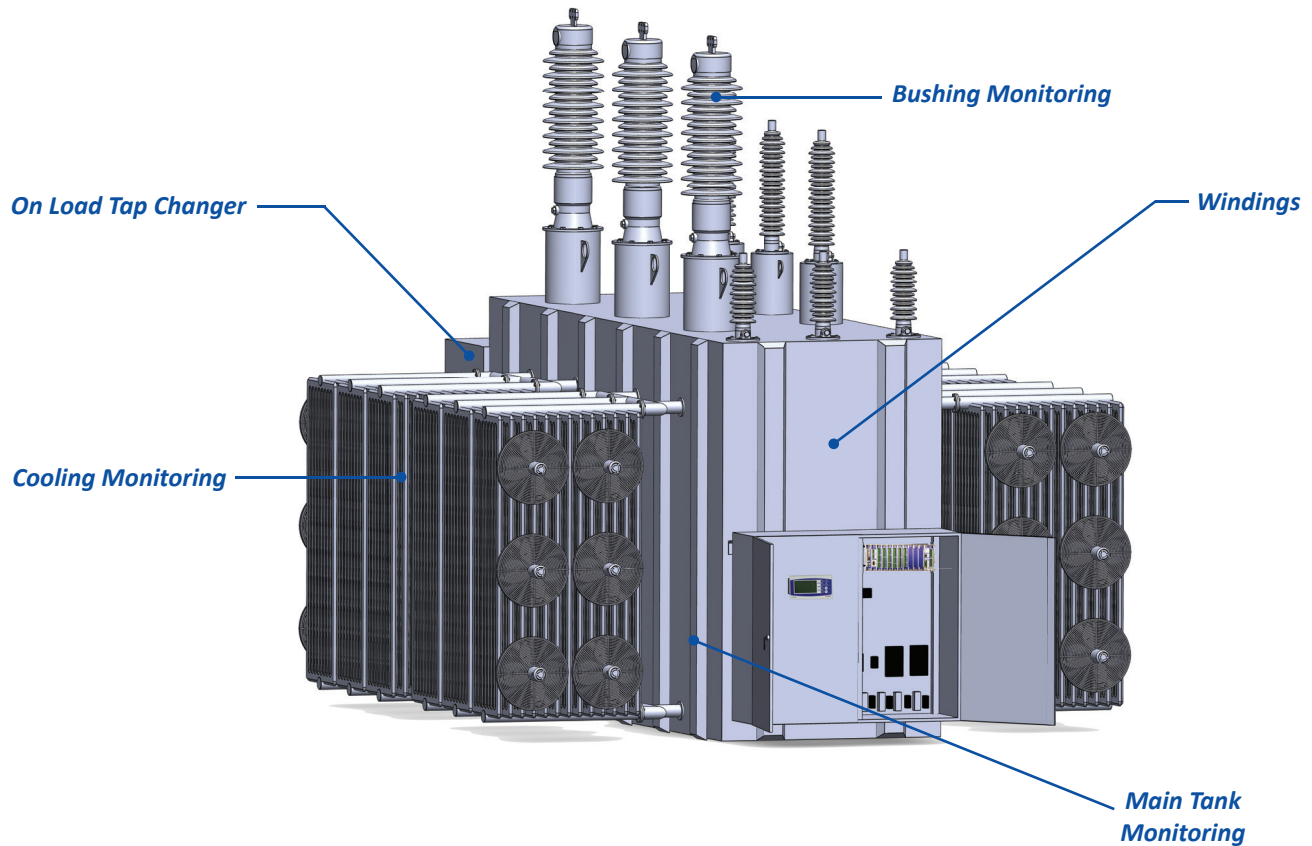
The Radio Frequency Current Transformers (RFCT) provides non-invasive, directionally sensitive partial discharge detection on electrical equipment by detecting activity in the ground connection.



Rogowski Coil (RC)

A RC is a polarity sensitive, air-core, high frequency current transformer used on high voltage power transformer applications. Partial discharge activity and many noise signatures are found in the high frequency range.

Generation Step Up Transformer Monitoring



Transformer Monitors



B100 Series Monitor

The cost effective B100 Electronic Temperature Monitor provides accurate asset control, measurement and secure communications for large power transformers. This all-in-one solution replaces transformer analog gauges, provides accurate indication of problems inside the transformer, and provides remote communication of any problems detected.



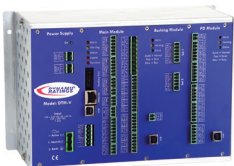
C50 Series Monitor

The C50 Series Monitor provides continuous and comprehensive monitoring of the entire transformer including powerful integration capabilities with key gas and multi-gas dissolved gas analyzers (DGA) to consolidate all data and communications into a single system to simplify analysis, diagnosis and management of critical transformer assets.



E3 Series Monitor

The E3 Series Monitor provides a configurable hardware platform for full service solutions. It reduces maintenance costs, provides safety and reliability, and maximizes life and loading, leading to optimal transformer performance.



DM Series Monitor

The DM Series Monitor provides advanced partial discharge and bushing monitoring for transformers. Monitor configuration, historical data and detailed diagnostics provide an indication of the location, type and rate at which a problem is developing. It is scalable, allowing customers to extend monitoring coverage to suit their needs.

Other Monitoring Solutions

iBridge Communications



iBridge Device

The iBridge allows you to create a TCP/IP network over any existing wire, connecting remote devices with computers, gateways, routers, and more. The iBridge can also convert DNP or Modbus data from a serial format to the same protocol in TCP/IP.



eXtender Device

The eXtender is an amplifier available to extend the range of transmissions. This can be installed in situations where the communications distance between iBridge devices are limited due to the quality or layout of wiring.



Gateway Device

The Gateway device facilitates multi-point connectivity. Additionally, Gateway devices allow for the configuration and monitoring of an iBridge system and the associated IP ingress/egress of communication through a LAN and chosen signal wire.



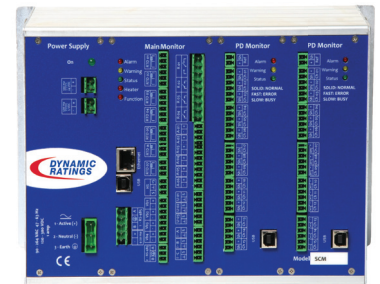
Inductive Couplers

The iBridge Networking and Communications Solution uses snap-on inductive signal couplers to transmit data over existing wires. Signal couplers are conveniently available in 9, 13, 18, or 25 mm core sizes.

Switchgear Monitoring

Switchgear and Cable Monitor

The Switchgear and Cable Monitor (SCM) is a continuous partial discharge monitor which monitors, stores and correlates partial discharge and other operating dynamics. It provides information as to the health of the medium voltage insulation systems, of switchgear, cables and bus ducts. Each SCM can be assembled, configured, wired and tested in a variety of packaging options to provide a cost effective and efficient field installation.



An ISO 9001, ISO 14001, ISO 27001, ISO 45001 Certified Company.

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