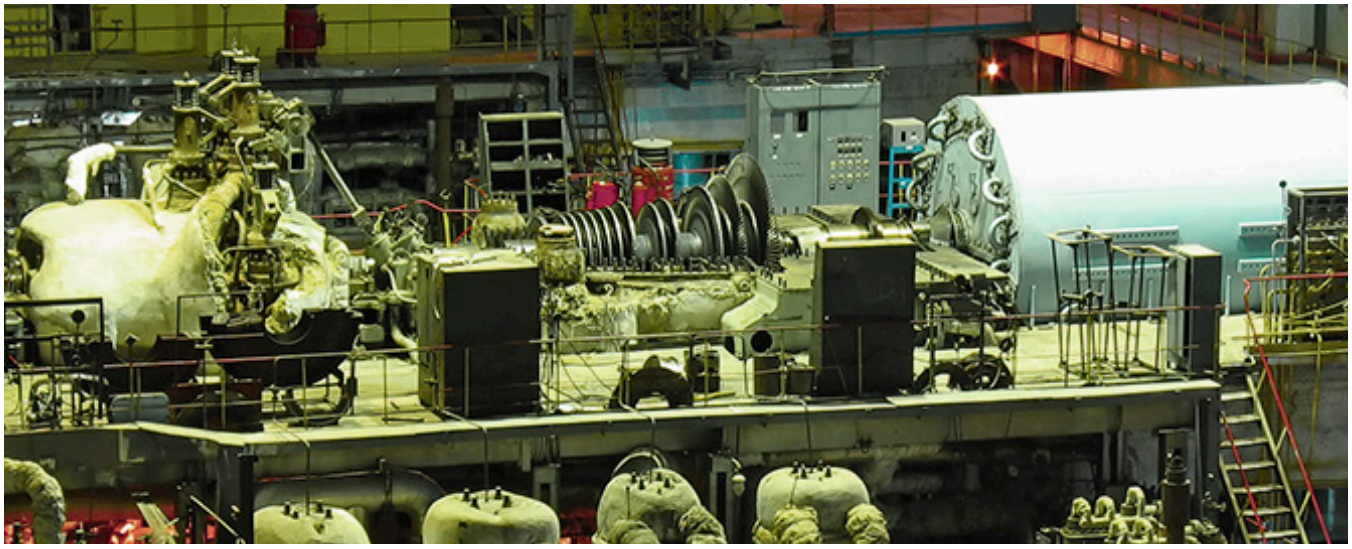
ACCUMETRICS
MTS SYSTEMS CORPORATION



EXTREME POWER ELECTRIC MOTOR MONITOR

EMI RESISTANT ELECTRIC MOTOR TEMPERATURE MONITORING

accumetrix.com | 1 518 393 2200

Application: Extreme Power Electric Motor Monitor

EMI Resistant Electric Motor Temperature Monitoring

Industry: High Energy Physics

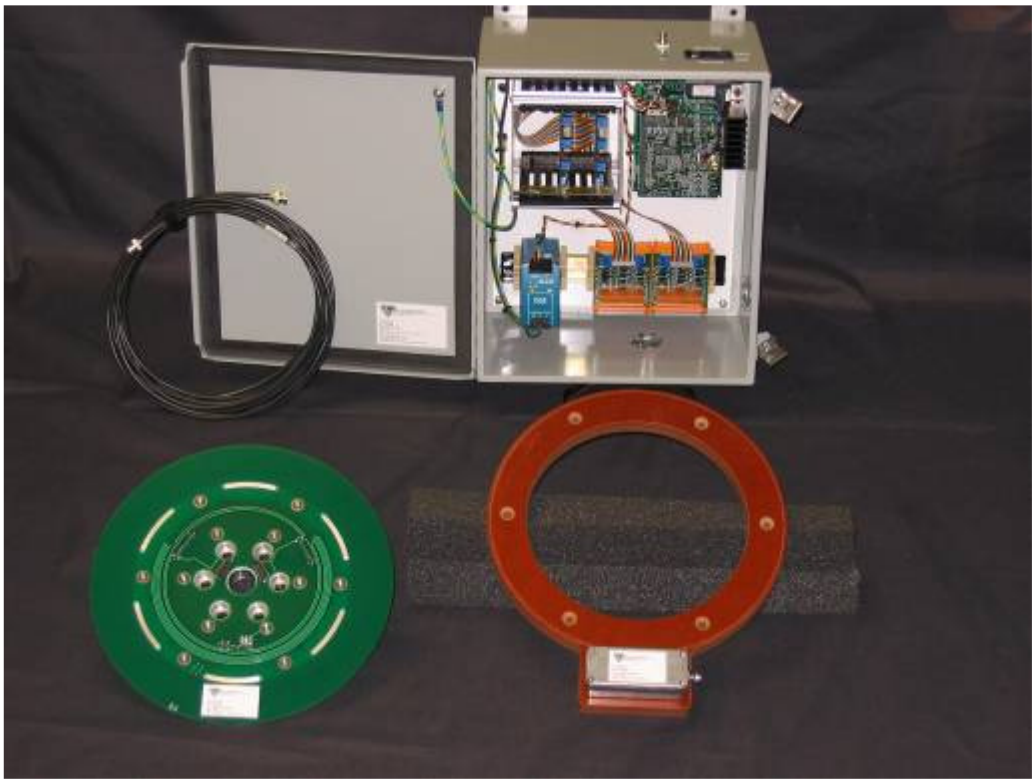
Product: AT-7000, Motor Monitor

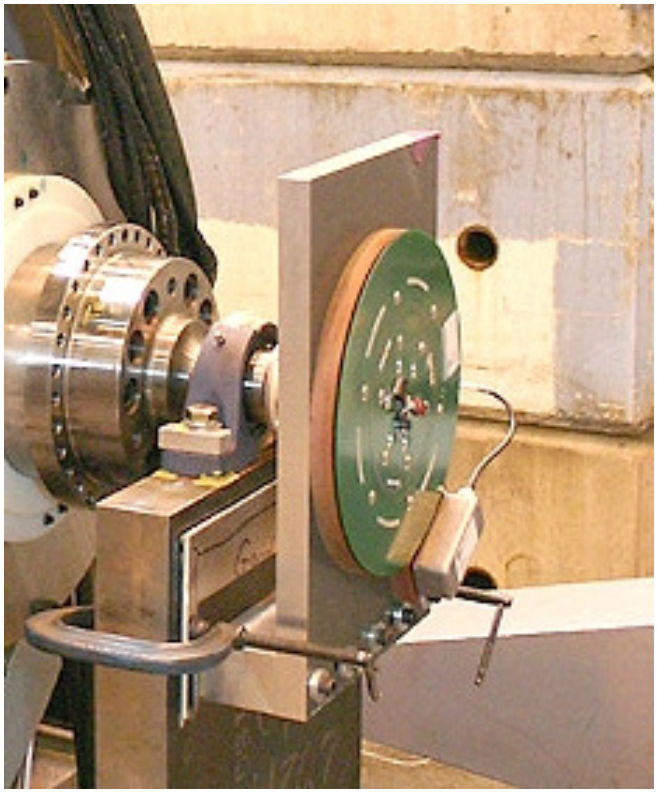
Parameters measured: Temperature

When a major university wanted to monitor the temperature of an experimental motor generator set used to produce well over 100 megajoules of energy, Accumetrics was selected to supply wireless telemetry to monitor RTD temperature data in an extremely noisy EMI environment (18 pole motor, variable frequency drive). The Accumetrics digital telemetry system was immune to this EMI, and furthermore was able to provide proprietary sampling techniques to successfully and accurately capture the RTD data without aliased signal contamination, thereby providing clean, dependable analog temperature information from our Receiver to the university.

Benefits:

- EMI resistant digital telemetry
- Anti-aliased data
- Precision measurements
- No slip rings; nothing to wear or maintain





The picture above-left shows the rotating Transmitter for the 8 RTD's on the lower left, the stationary induction power/data Pickup on the lower right, and the Receiver (digital to analog output device) in the background. The above-right picture shows the system in action. The unit was able to operate properly despite extreme EMI from high energy 18 pole variable frequency drive electronics.

The AT-7000 Motor Monitor can also be configured to measure rotor voltages and currents, detect ground faults, and monitor shaft torque and torsional vibration. The Motor Monitor is a specific variation of the AT-7000 product line.

ACCUMETRICS
MTS SYSTEMS CORPORATION
6 British American Boulevard Suite 103-F, Latham, NY 12110 USA
Toll-Free in the USA: **888 684 0012**
Phone: **1 518 393 2200** | Email: **telemetry@pcb.com**

PCB Piezotronics, Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. With a worldwide customer support team, 24-hour SensorLine℠, and a global distribution network, PCB® is committed to Total Customer Satisfaction. Visit www.pcb.com for more information. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

MD-0414 revNR 0719

MTS SENSORS

MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), vastly expanded its range of products and solutions after MTS acquired PCB Piezotronics, Inc. in July, 2016. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corp.; IMI Sensors and Larson Davis are divisions of PCB Piezotronics, Inc.; Accumetrics, Inc. and The Modal Shop, Inc. are subsidiaries of PCB Piezotronics, Inc.