ECMS-1

EMPATH™

MotorDoc® LLC
Doing what everyone else just talks about

EMPATH Continuous Monitoring System—Single Machine

Continuous monitoring of power quality, machine condition and efficiency, and driven equipment.

Detects stator defects including winding stresses, missing wedges, rotor defects such as broken rotor bars, static and dynamic eccentricity which identify driven equipment and alignment faults, bearing defects, coupling faults, fans/pumps/gearbox/belt issues.

Detects issues in AC/DC motors, AC/DC generators, machine tool and robot motors and steppers, VFD, transformers, hybrid vehicles, wind generation and powertrain, DC drives, and more.

Sends warnings and alarms via email, SMS, or other conditions and can be linked to SCADA, PI and similar systems for inclusion in complete solutions.

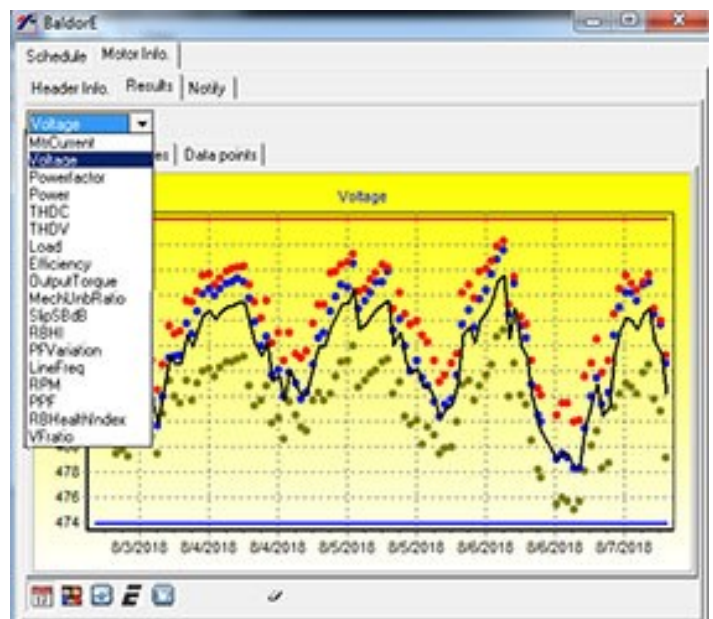Single motor or transformer monitoring all three phases Voltage and Current

Mix or match with ECMS for up to 100 hardware systems per software instance

Inputs provided by ePlugs with up to 600 Vac and 1000 Amps direct or higher with data from site CTs and PTs

Data I/O over Ethernet (Cat 5e)

Power supply 110/220 V, 50-60 Hz

Each system comes complete including ECMS-1, software and ePlug kit.

Detect issues in variable frequency drive systems from loose connections to winding stresses related to VFD defects.

Detect on and off-shore wind turbine control, generator, gearbox, main bearing and blade defects automatically.

Detect DC motor, drive and driven equipment defects remotely.

Detect AC/DC elevator control, motor and geared/gearless components prior to component failure.

See the entire system in one sensor—the motor or transformer.

EMPATH and ECMS software are inter-changeable for single use of data collection, ECMS and ECMS-1 common databases

Software is Windows 7 or greater server or computer compatible

Outputs are in text format for easy mapping to monitoring systems

Data and databases are reverse-compatible

Server-Client one-way TCP/IP for security—utilizes server security

Compatible with wireless VPN routers for WiFi and cellular systems

Built-in motor and bearing database within the software