

MachineSense® Power Analyzer™ Does What Others Cannot

The MachineSense Power Analyzer electrical line monitoring system predicts the health of electrical motors and components, and provides detailed energy consumption information for connected devices 24/7/365 – automatically. Power Analyzer is used by many manufacturing operations and facilities management as a predictive maintenance tool.

Unlike other power monitoring devices which take manual on-spot measurements, Power Analyzer is typically connected permanently to a device, to provide for constant monitoring.

When the collected data detects an abnormality that could result in a machine failure, a text is forwarded to the designated person(s) and an alarm is displayed on a Smartphone or tablet dashboard.

Power Analyzer measures and analyzes voltage and current on all three phases, power factor, active power and energy, reactive power and energy, voltage and current total harmonic distortion, neutral imbalance as well as sag/swell event detection.

The clip-on toroid sensors are easily attached to the input power line and constantly monitor the supply line. Sensor data is transmitted by the on-board MachineSense Datahub via WiFi or Ethernet to a local router and to MachineSense's cloud infrastructure.

MachineSense's proprietary analytics algorithm track and compare the collected data against a base line to determine the overall component health trending of components such as bearings, rotors, stators and heating elements. Phase imbalance can be detected and reported as well as current and historic electrical power consumption.

Besides the visualization of valuable operating metrics, Power Analyzer accurately predicts and alarms for pending machine and component failures, thus significantly reducing unscheduled equipment downtime.

The Power Analyzer monitoring solution includes MachineSense's extensive Crystalball™ software, which enables the user to set up alarms and alarm recipients, provides six months of historic data with trend lines that show equipment performance, as well as serving as a dashboard for all monitored assets, by department or plant.