

Centenelle Energy and Reliability Assessment



Making the right decisions without the best information is a gamble. Centenelle is pleased to offer the **Centenelle Energy and Reliability Assessment**. One week of monitoring your motors with our patented Portable Electric Pattern Monitor (PePM) can provide the critical decision support information needed to save on **utility bills**, reduce **maintenance costs**, and avoid **unscheduled outages**.

- The first CER Assessment will show you the basic operation and establish the baseline condition of your motor operated equipment.
- Periodic follow-up assessments will augment your predictive maintenance program and expose equipment inefficiencies and deterioration.
- Staged what-if scenarios will show the impact of changes in equipment or operations before rolling them out to the enterprise.

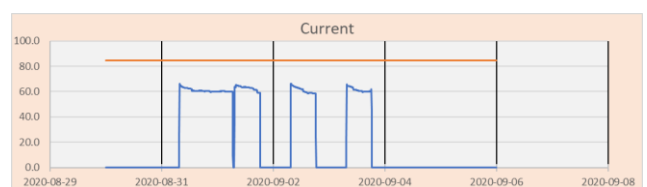
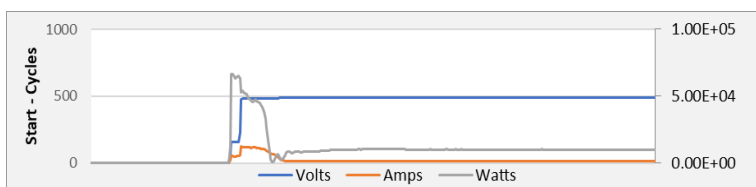
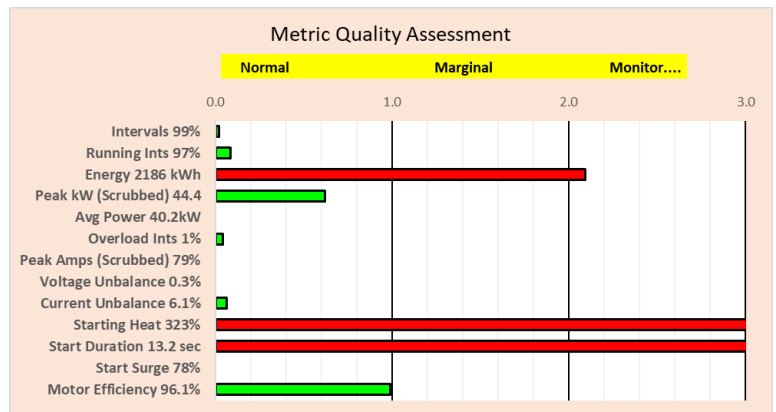
Data	This assessment is based on [14,767,718,400] raw measurements.
Information	Raw measurements are reduced to [106,159] Trendable Values.
Knowledge	These Trendable Values are further reduced to [15] Observations.
Wisdom	Based on these Observations, [2] Recommendations are offered.

Centenelle Process Improvement Loop

- Monitor to find issues
- Develop recommendations
- Implement the recommendations
- Monitor to verify the results

A CER Assessment includes

- One week of 24/7 monitoring of a motor driven system
- A comprehensive report with Observations and Recommendations
- The reduced data set used to generate the report, in CSV format for your own studies
- Access to the Centenelle Power BI Dashboard with all assessment trend and event data at your fingertips for further research.
- Technical support from our engineering team.

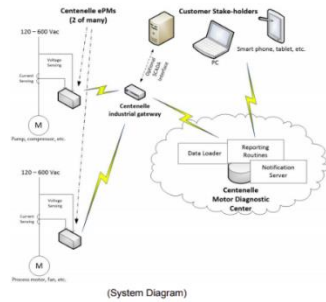


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Know Your Motors

2/3/2021



Centenelle CER System

CER offers a comprehensive view of the power demanded by your motor driven systems.

Portable Electric Pattern Monitors (PePMs) monitor and report motor operation for a 7-day period in preparation for the **CER Assessment Report**.

The CMDC cloud server is a secure, reliable repository and analysis engine evaluating your motor in real time.

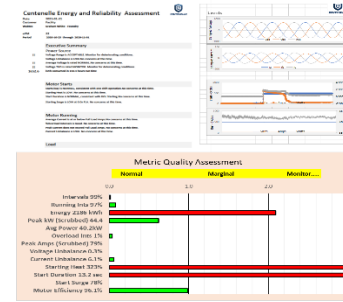


PePM

Portable Electric Pattern Monitors monitor the voltages and currents feeding power to your motor, computing derived values. This edge device provides massive reduction of raw data into usable information.

The PePM sends the reduced information to the Centenelle Motor Diagnostic Center (CMDC) for archive and analysis.

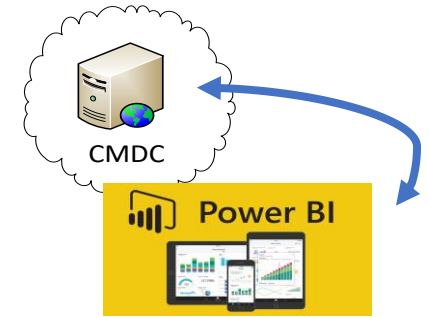
Transients that deviate from known patterns are submitted to the CMDC for review by Centenelle technicians. This includes cycle-by-cycle as well as point-on-wave details.



Assessment Report

The CER Assessment Report is a comprehensive review of a seven-day monitoring session. The report includes:

- An executive summary evaluating 15 important parameters derived from the captured performance information
- The information used to generate the report in Excel CSV format for your own studies
- One month access to the CMDC Power BI Dashboard with all trend and transient details.
- Technical support to make the installation and understanding a breeze.



CMDC

The Centenelle Motor Diagnostic Center is a cloud based repository of motor operating history. A Customer Dashboard allows on-demand inspection of trends and events.

Centenelle analysts access the CMDC to review each unusual transient for possible action.

CMDC hosts a powerful analysis engine to automatically classify events into known categories and auto-generate insights into your operation.

Centenelle works on a Prescriptive Diagnostic and Treatment Model – proven solutions are applied to correct well known problems