



Connected Solutions

Remote Power System Management

GENOSYS™

LEROY-SOMER™
KATO ENGINEERING™

Nidec
All for dreams



Monitor and manage your power system fleet remotely with GenOSys, a unified cloud based architecture

THE CHALLENGE

Power system fleet managers need accurate, timely information about the performance of their systems to improve safety, efficiency and cost containment.

THE SOLUTION

GenOSys is an advanced, flexible asset management tool that monitors, tracks and alerts end users with key data regarding power system performance for both retrofit and new builds.

The GenOSys system includes on-site electronics and hardware, secured local and remote processing, and a customizable secured web interface.

With real-time operating asset data available remotely, safety is improved and performance can be optimized. The opportunities to improve power system quality are endless.

BENEFITS OF GENOSYS

- Reliable, real-time power system information, even from remote locations
- Optimal power quality
- Improved operating asset and site efficiency
- Extended equipment life before need for rebuild
- Reduced likelihood of catastrophic asset failure and premature replacement costs
- Improved workforce safety
- Enhanced ease of use
- Centralized fleet management
- Streamline maintenance and service organizations
- Eliminate unnecessary preventative and predictive maintenance
- Control field repair quality

RIGS

📍 [Rig 111 Edit](#)

DATE/TIME (LAST UPDATED)
06/12/2015 08:36:51 PM UTC

LATITUDE/LONGITUDE
Lat: -88.3° Long: 36.9°

REGION
Midwest

TEMPERATURE
85.5 °F (06/12/2015 08:36:51 PM UTC)

LOCATION
Chicago, IL

GENSET 1

STATUS
OK

SERIAL NUMBERS
Generator: 1234
Engine: 4567
Panel: 8901

Sensor data as of 06/12/2015 08:36:51 PM UTC

GENERATOR

ENGINE

SYSTEM

Engine Type: -
Engine Switch Position: RUN
Engine Load Factor: 59 %
Engine Speed: 1,204 rpm
Engine Hours: 4,226 hrs
Engine Status: RUN
Warning Status: NONE
Shutdown Status: NONE
Atmospheric Pressure: 14.7 psia
Crankcase Pressure: 0.2 psig
Fuel Consumption: 38.6 gal/hr
Total Fuel Consumption: 84,321 gal
Total Operating Hours: 12,226 hrs

COOLANT

TURBOCHARGERS

LUBE OIL

CONTROLS

Derate Status: NONE
Throttle Position: 52 %
Speed Command: 1,200 rpm

ELECTRICAL

FILTRATION

FUEL

GENSET 2

STATUS
OK

SERIAL NUMBERS
Generator: 1234
Engine: 4567
Panel: 8901

Sensor data as of 06/12/2015 08:36:51 PM UTC

GENERATOR

POWER & ELECTRICAL

Reactive Power: 697.1 kVAR
Apparent Power: 975.6 kVA
Active Power: 682.6 kW
Current: 1,157.3 A
Generator Line Voltage 1 (Frequency): 602.3 V
Generator Line Voltage 1 to Neutral (Frequency): 601.1 V
Generator Frequency: 60.2 Hz
Power Factor: 0.7

GENERATOR TEMPERATURES

Air In Rtd: 85.6 °F
Air Out Rtd: 150.9 °F

BEARING

DE Rtd: 95.4 °F
DE Vib: 0.22 in/s
ODE Rtd: 160.9 °F
ODE Vib: 0.27 in/s

STATOR

Phase A Rtd: 170.3 °F
Phase B Rtd: 160.2 °F
Phase C Rtd: 163.9 °F

ROTOR

Rotor Insulation Resistance: 25,485 kΩ

ENGINE

GENSET 3

STATUS
OK

SERIAL NUMBERS
Generator: 1234
Engine: 4567
Panel: 8901

Sensor data as of 06/12/2015 08:36:51 PM UTC

GENERATOR

ENGINE

SYSTEM

COOLANT

Engine Coolant Temp: 208.2 °F
LT Temperature: 122.4 °F

TURBOCHARGERS

Right Turbine Inlet Temp: 1,042.8 °F
Left Turbine Inlet Temp: 1,093.9 °F
Main Manifold Boost: 9.8 psig
Left Turbine Inlet Pressure: 26.3 psig
Right Turbine Inlet Pressure: 25.9 psig
Intake Manifold Temperature: 134.2 °F

LUBE OIL

Oil Temp: 217.2 °F
Engine Oil Pressure: 52.7 psig

CONTROLS

ELECTRICAL

Battery Voltage: 10.8 V

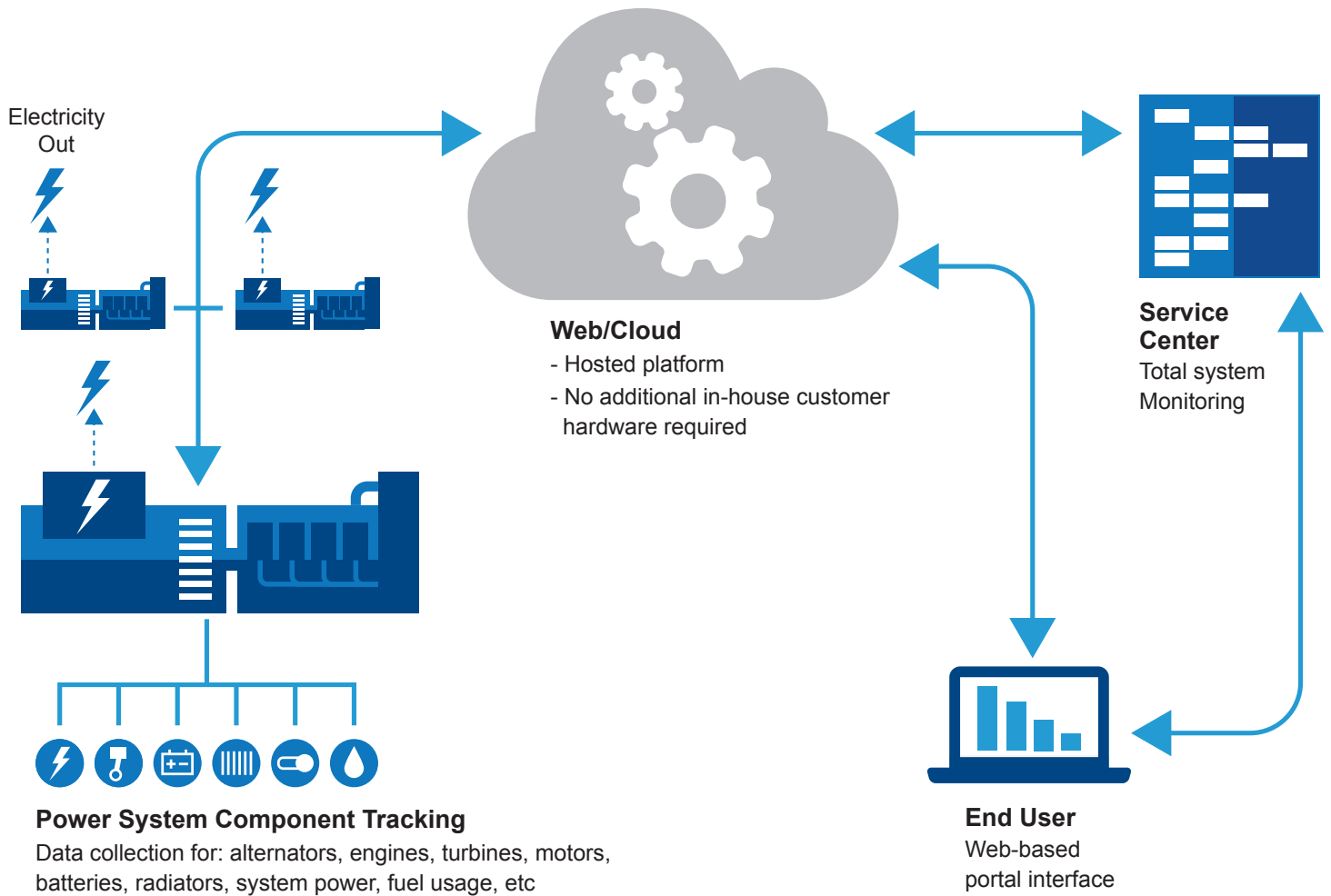
FILTRATION

Fuel Filter Pressure Diff: 0.1 psig
Right Air Restriction: 0.4 psig
Left Air Restriction: 0.3 psig

FUEL

Engine Fuel Pressure: 21,755.2 psig
Fuel Temperature: 81.4 °F

GenOSys web interface



GenOSys overview

Collect a full range of data from multiple components and/or systems on-site

- Monitor what you need, i.e. vibrations, rotor insulation health, system fault conditions, pressures, speeds, etc.
- Proprietary Application Programming Interfaces ensure easy integration into other systems
- Flexible outbound communications capabilities

Cloud-based data management with state-of-the-art technologies

- Optimized response with local and remote data processing
- Ensured data redundancy and availability when needed
- Industry-leading security
- Detailed analyses from electrical equipment OEM

View and respond to diagnostics and performance data in real-time

- View and manage multiple remote sites from anywhere in the world
- Intuitive web portal with a full compliment of data, trending and logging at your fingertips
- Predictive alerting from system experts

Optimize your power system performance with GenOSys

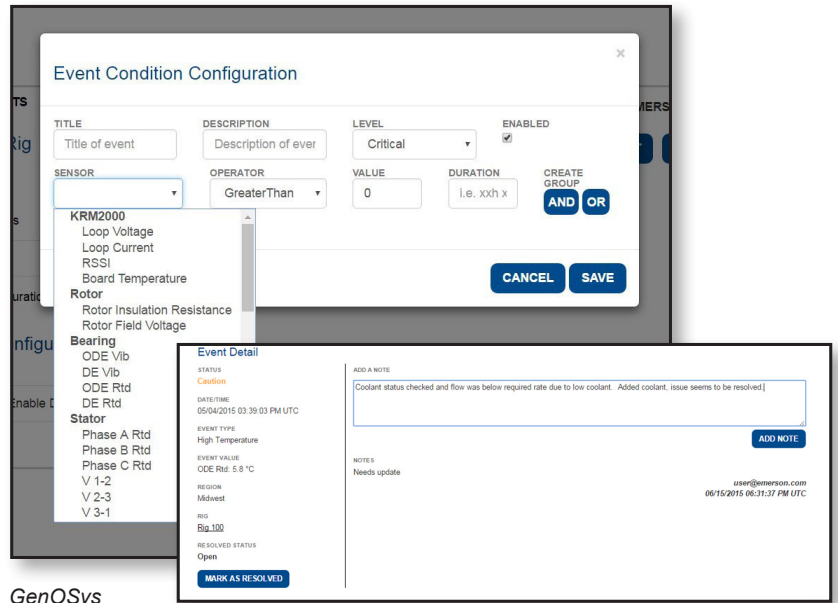
APPLICATIONS

Any critical power in prime or continuous applications requiring high-speed information.



WHY

Protect your investments and get the most out of your critical power systems with monitoring and diagnostics from the experts.



GenOSys
web interface

About us

GLOBAL REPUTATION FOR EXCELLENCE

Nidec Leroy-Somer and Kato Engineering bring a long history and global reputation for designing and manufacturing the world's leading generators known for ruggedness and performance.

Now, GenOSys enables you to optimize your power generation facilities with continuous remote monitoring and diagnostics.

WORLD-CLASS CUSTOMER SERVICE & SUPPORT

- Service contracts available with GenOSys for certified alternator maintenance and health management
- Skilled specialists are only a phone call away
- Available to assist customers 24/7 every day of the year
- Equipment installation, commissioning, start-up and maintenance
- Troubleshooting & repairs
- Genuine aftermarket parts

LEROY-SOMER[™]
KATO ENGINEERING[™]

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