

# GoConnect

Equipment monitoring solution



NOY

GoConnect™

Mon, Oct 05 2020  
09:43:58 CDT America/Chicago (4 minute ago) Settings Add to Dashboard

## Dashboard

- Dashboard
- Trend
- Readback
- Readings

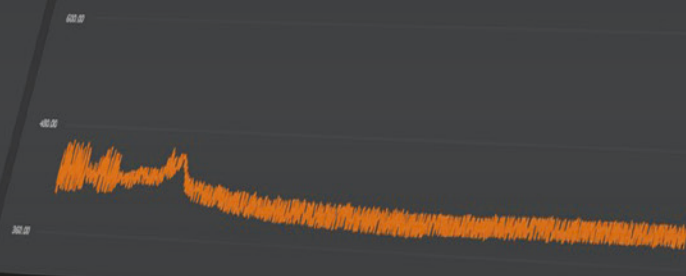
	RUN STATUS	OWNER	OWNER SERIAL NUMBER	OEM SERIAL #	MODEL	VIN #	LOCATION
	ON	PFT					

Overview Well Data Energy Consumption Nameplate

Operating Status	Rod Speed	Rod Torque	Motor Current	Control Loop Target	Control Loop Feedbac...
HAND	160	383.2	25.9	525	383

Overview Today

OPEN IN TREND TOOL



TAGS	LATEST	UNIT
rod_speed	160	
Alert (LOW): 60	(HIGH): 250	
Fault (LOW-LOW): 50	(HIGH-HIGH): 200	
rod_torque	383.2	
Alert (LOW): 130	(HIGH): 500	
Fault (LOW-LOW): 50	(HIGH-HIGH): 525	

Support/Feedback



About noy.com





# How do you and your operations benefit from GoConnect? It all starts with Max™

The new Max™ digital ecosystem enables you to improve operational performance by giving you the ability to capture, aggregate, visualize, and analyze your data in real-time, on the edge and in the cloud. The technology seamlessly connects your office and field personnel, enabling them to make real-time decisions with one version of the truth.

In addition to data services, the Max digital ecosystem hosts a suite of specialized applications to support efficient operations.

Hosted on Max, our GoConnect™ real-time condition monitoring application reduces maintenance costs, extends the life of your assets, and helps you avoid unplanned downtime. GoConnect provides data-driven insights into the condition, health, and performance of your equipment. And, our user-friendly interface gives you current and historical data accessible to you anytime, anywhere.

## Key advantages

- Compatible with assets in a variety of industries and processes
- Field-wide view of multiple asset and process status
- Robust and reliable technology suites
- Intuitive and customizable user interface
- Data and data analytics available in the office and at the edge
- Global footprint of experienced service technicians

## Not all edge is created equal

Max Edge software enables the interface between the Max Platform and GoConnect application. The software is housed in ruggedized, fit-for-purpose, and field proven edge hardware, and provides the following:

- Universal data translator and aggregation
- Multiple inbound/outbound industry protocols available
- Real-time analytics/high-speed data
- Industrial Linux based firmware
- Containers/microservices architecture
- Easily scalable
- Store and forward built in
- Secure with TLS 1.3 and Edge X509 certifications
- Local timeseries and meta database
- Remote manageability and software upgrades

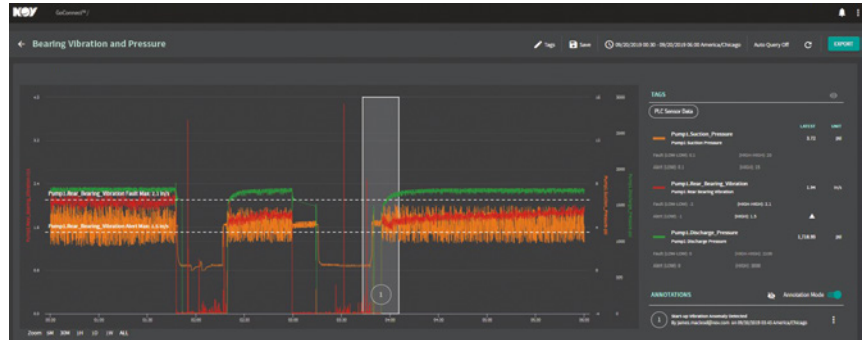
# Data visualization and analytics customized to your preference

- Basic condition monitoring or advanced analytics packages available, based on customer requirements
- Configurable dashboard layout and user interface
- Rapid access to reveal status and asset health through dashboard view
  - Drill-down functionality with quick trend data plotting
  - Multiple input categories
  - Fully customizable for specific asset type or category
- Trend tool
  - Fully customizable Y-scale range
  - User and shared annotation management tool
  - User-saved custom trend boards for rapid future access
  - Trend boards can be private or shared with other authorized users
  - Custom legend location views
  - Infinite historical data range (17 presets, plus custom date range selection)
  - Export tool in multiple formats for reporting (PDF, CSV, PNG)
- Custom threshold alert management
  - Users subscribe only to alerts they want to receive
  - Both OEM-recommended and custom-value selections available
  - Alerts delivered by text message and/or email



Dashboard landing view provides a first-look into any monitored asset. Data access can be organized by category and provide rapid access to personalized **Overview**, **Energy Consumption**, or **Sensor Readings**.

Dashboard view also includes a “Last 12 hours” graphical overview of plotted analog data readings.



Equipment	Run_Status	Add	Alert
PLC3_Asst_Tank_Tank_Level	0	3	Add
PLC3_Asst_Pump3_Pum_p_Run	0	5	60
PLC3_Asst_Pump3_Pum_p_Overload	Add	Add	
PLC3_Asst_Pump3_Pum_p_Run	Add	Add	
PLC3_Asst_Pump3_Pum_p_Overload	Add	Add	
PLC3_Asst_ITD_Pump3_Ho using_Temp	Add	10	
PLC3_Asst_ITD_Pump3_Ho using_Temp	Add	10	
PLC3_Asst_EXT_Pump3_Pu mp_CT	0	0	
PLC3_Asst_EXT_Pump3_Mu rcher_CT	Add	-1	3
PLC3_Asst_EXT_Pump3_Pu mp_CT	0	0	5
PLC3_Asst_EXT_Pump3_Mu rcher_CT	Add	-1	3
PLC2_Asst_Pump3_Suction_Pressure	Add	Add	Add
PLC2_Asst_Pump3_Rear_Be aring_Vibration	Add	Add	Add



# When data tells a story...and saves you from unplanned downtime and maintenance expenses.



A unique anomaly was identified during the operation of a pump at a treatment facility. Because of unidentifiable performance issues, the team introduced digital monitoring equipment to investigate.

The pump demonstrated high output slugging on raw tank extraction during start-up. During the initial examination, the pump appeared to have premature seal wear and bearing fatigue.

Once installed, GoConnect was configured for both vibration and discharge pressure alerts. When the alerts were received, NOV service specialists identified a unique signature within the data trending which prompted the need for further investigation to the system plumbing.

The data led the team to the cause of the alerts, and the anomaly signature was determined to be the result of intermittent

cavitation due to suction plumbing configuration. With these data insights, the plumbing configuration was modified, and this combination “rules-based” input alert is now identified as early cavitation detection. The alert settings were adjusted based on the data.

As a result of digital machine learning, significant unplanned downtime and maintenance costs were saved.



## Be confident in our data stewardship practices

Protecting your data is our priority. We are good stewards of your data, employing the best practices and people to provide you with confidence and peace of mind.

### Confidentiality

Your data is not accessed, used, or shared without your permission.

### Integrity

Your data is encrypted in transit and at rest ensuring it is complete and accurate.

### Availability

We employ multiple layers of redundancy to ensure that your data is available 24x7.

### Security

Comprehensive security controls are employed that align to the National Institute of Standards and Technology (NIST) Cybersecurity Framework and managed by our Information Security Management System (ISMS).

### Privacy

Our data services agreements are straightforward, clearly identifying how we collect, store, use, and dispose of your data responsibly. Privacy is embedded into the design and architecture of digital products, systems, and business practices.

These trust principles are independently reviewed by a 3rd party.

- NOV Customer Data Services are managed within an Information Security Management System that has been independently certified to ISO 27001:2013, an internationally recognized standard for information security management.

Our Information Security Management System has been independently certified to ISO 27018:2019, an international standard for data privacy in the cloud.

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