

We are ABEL!

ABEL Smart Pump Assistant for HMQ

Keep watching your Pump



Upgrade your Pump

Ease your Process

With ABEL's new Smart Pump Assistant, you can view online how your pump is performing. You have 24/7 access to current pump data and get immediate notifications when pump parameters are exceeded. The monitoring system expands your control and makes you aware of efficiency improvements.

Features

- 24/7 Online Pump Monitoring
- 24/7 Real-Time Alerts by SMS or E-Mail
- Access your pump anywhere / anytime
- Access via Browser or App
- Automatic Device Registration
- Historical Trends
- Data export to multiple formats
- Maintenance Planner



User Interface

- Internet Browser: Microsoft Edge, Google Chrome, Mozilla Firefox
- Mobile App: AMI-Central on IOS and Android (available for free download in app stores)

Standards

- Pumps in operation: Gateway mounted in terminal box IP66
- New pumps: Gateway mounted in PLC/display cabinet

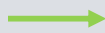
Cloud Communication

- 4G LTE cellular
- Optional ethernet
- Encryption: AES-256

Benefits

- Reduction of OPEX costs
- Optimization of pump performance
- Early detection of potentially critical situations

Dashboard

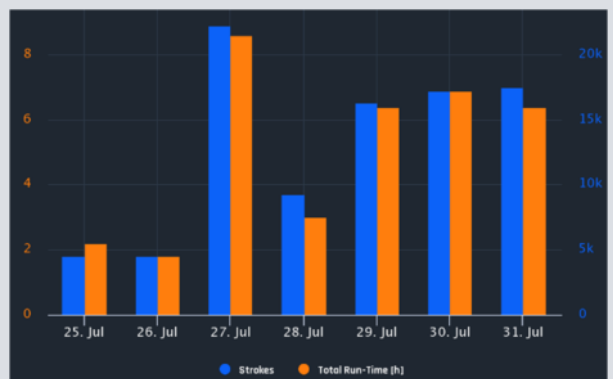


Total Run Hours
2979

Total Strokes
4,207,056

Next Service in
Hours: 1161
Date: 10/06/2023

Click below for service

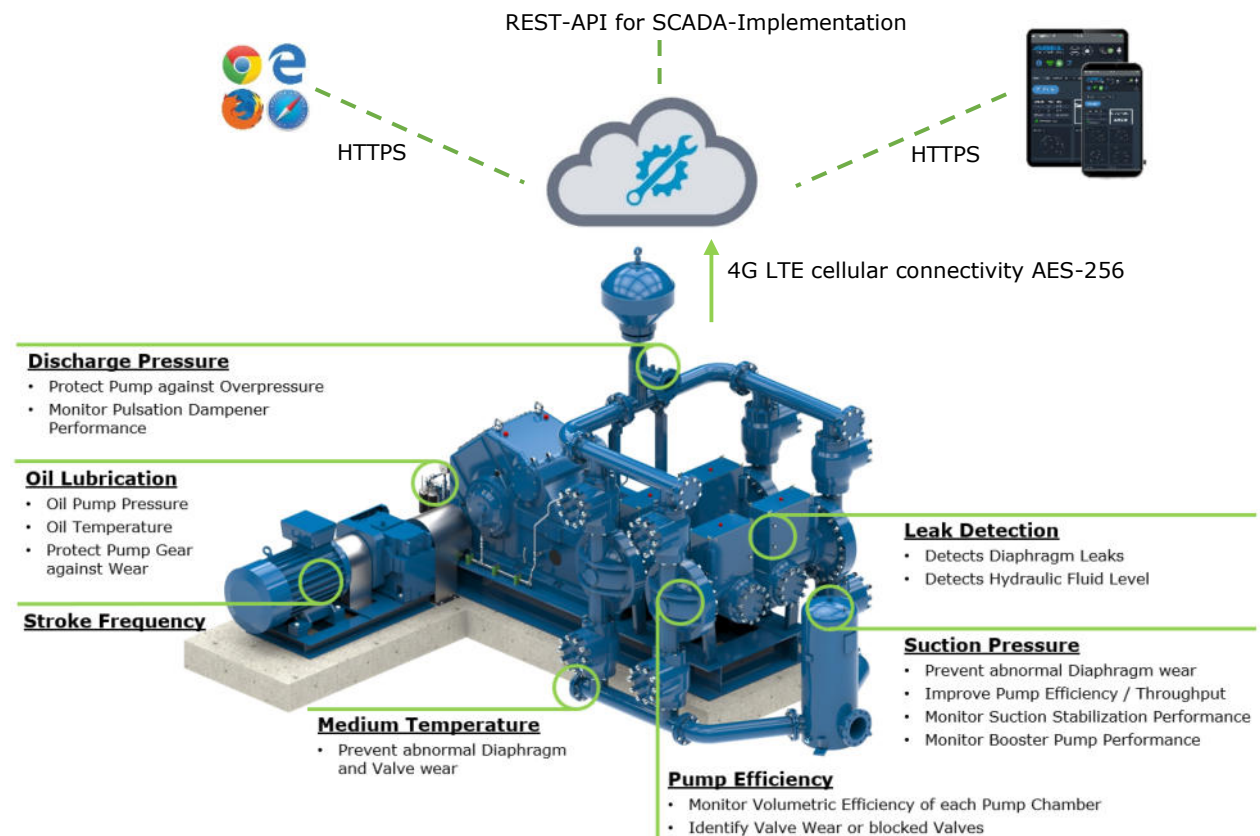


Smart Pump Assistant 1.0

Designed to meet your Demands

	Advanced Condition Monitoring
Web UI and Phone App	✓
Service Interval Timer	✓
Real-Time Alerts	✓
Protection at critical pump parameter	✓
Historical trends to each signal	✓
Pump efficiency per chamber	✓
Run Timer	✓
Stroke Frequency	✓
Stroke Counter	✓
Suction Pressure	✓
Discharge Pressure	✓
Pulsation dampening equipment performance (suction and discharge)	✓
Medium Temperature	✓
Oil Temperature	✓
Oil Pressure	✓
Piston and Valve Leakage Detection	✓
Diaphragm and hydraulic Fluid Leakage Detection	✓

Example of System Structure



Smart Pump Assistant 2.0

Online Service Packages

SPA 2.0 – automated efficiency loss detection

With the ABEL Smart Pump Assistant V2.0 we offer intelligent services to support your pump operation 24/7 with analysis of the pumps condition. This will help you to maximize and hold pump efficiency on a very high level.

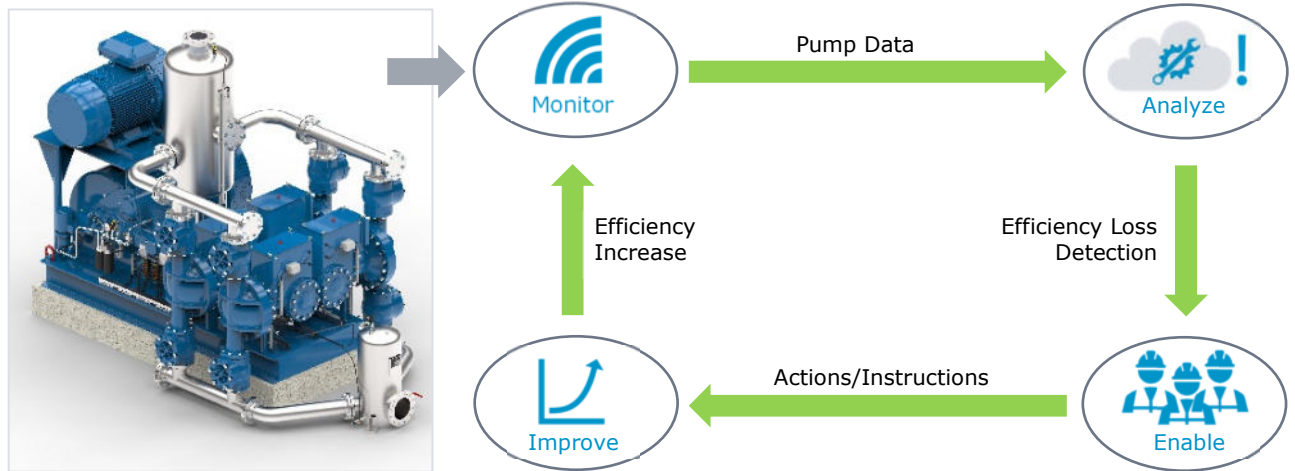
The intelligent online service helps you to:






- reduce operating costs
- operate more energy efficiently
- maximize uptime of the pump and your process
- reduce service times
- choose the optimal time for maintenance
- change wear parts depending on actual wear

"The more you know about the condition of your pump, the better you will be at operating it efficiently."

Alexander Janzon, ABEL Product Manager

How does it work?



				
Monitored Pump Data	24/7 Online Algorithms Analytics	Efficiency Messaging System	Enable Pump User	Improve Production Efficiency
SPA monitors continuously all important pump parameters.	The monitored data is automatically and continuously analyzed by intelligent algorithms.	In case the algorithms recognize an anomaly, SPA informs immediately about the pumps malfunction.	The user is informed at any time and can take suggested actions.	Due to the SPA, pump operators can increase process efficiency and production throughput.

The pumping solution for your industry:

- Mining
- Water and Wastewater
- Ceramics
- Chemistry
- Oil and Gas
- Energy Industry
- Corrugated Board
- Paint and Varnish
- Petrochemical

Diaphragm Pumps
Solids Handling Pumps
High Pressure Pumps
Marine Pumps

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