

Wikov designs, manufactures, supplies and services customized gearboxes for wide range of applications. In addition we developed a specific condition monitoring system WiGuard for monitoring Wikov's gearboxes. This diagnostic tool protects gearbox/drive against fatal failures and saves your maintenance costs significantly.

Our success is based on experience we gained in our 130 years history, international team of R&D specialists and state of the art production technologies. These main pillars lead to identifying the best solution for you with maximizing functional and economical parameters of your application.

WiGuard

Condition Monitoring System Developed for Gearboxes



Wikov Manufacturing Facility

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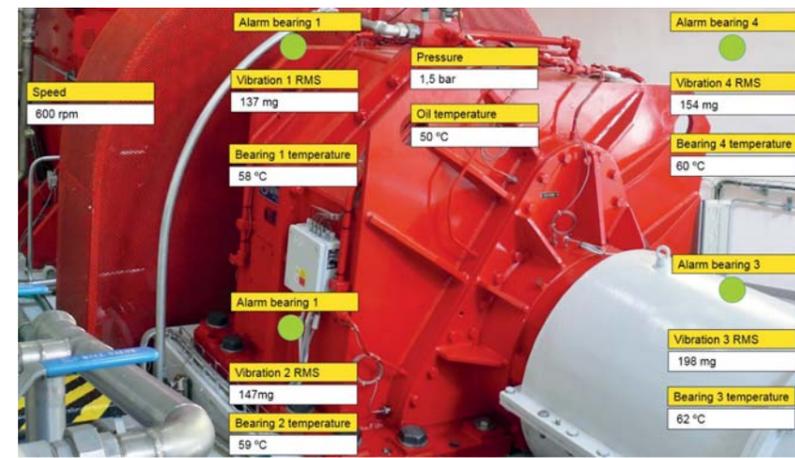
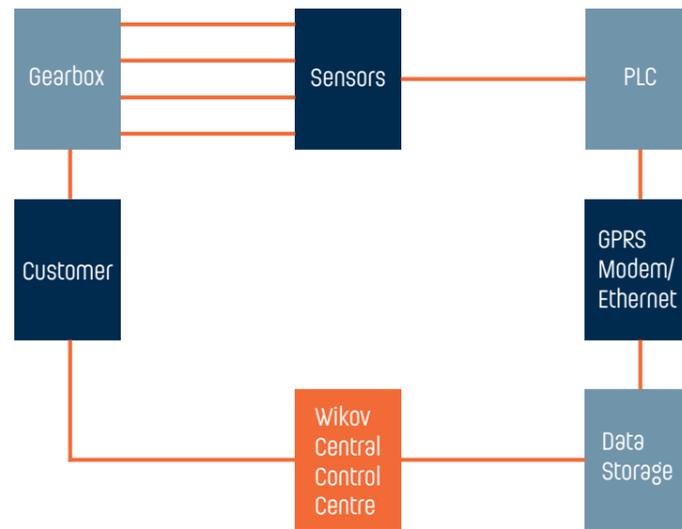
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The Essence of Engineering



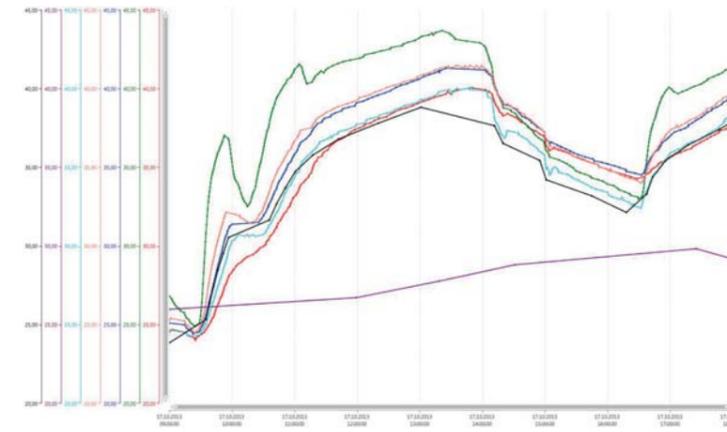
User's interface



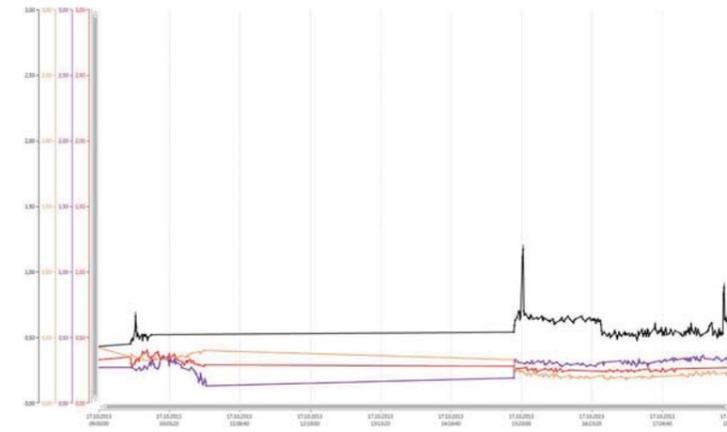
- WiGuard technical description**
- Complete preventive and diagnostic tool
 - PLC including analog and digital I/O
 - Continuous measurement and data acquisition
 - On-line data analysis
 - Safety functions - warnings and errors messages
 - History database
 - Simple access through internet client
 - Customer's requests modifications
 - Based on IEC standards, applied on any HW platform (Bachmann, Siemens, etc.)

- Measured and monitored key parameters**
- Vibrations
 - Temperatures
 - Pressures
 - Speeds
 - Flow capacity
 - Torque
 - Oil quality
 - Oil particles

- Alarm settings**
- Each value (vibration, temperature, etc.) has own alarm setting
 - You can choose the level of the alarm (according to the alarm importance)
 - All alarms create e-mail alerts
 - All alarms are recorded and saved into the archive



Temperatures



Vibrations

Parameter	Value
Vibration	0 – 0.4 Hz max. displacement amplitude: 0.8 m
	0.4 – 100 Hz max. acceleration amplitude: 5 m/s ²
	100 – 1,000 Hz max. velocity amplitude: 9 mm/s
Relative humidity	5% to 100% condensing
Electrical protection	IP 54 (IP 65)
Operational temperatures	-40°C - 50°C
Salty protection	annual average ≤ 0.1 mg/m ³
Warranty period	5 years

WiGuard – Benefits

- Extended warranty conditions
- Effective maintenance planning
- Protection against forbidden operation states
- Protection against fatal damages
- Long term unit monitoring, full scale diagnostic
- Extension of the unit lifetime and improvement of its reliability
- Significant cut-down of operational and maintenance costs