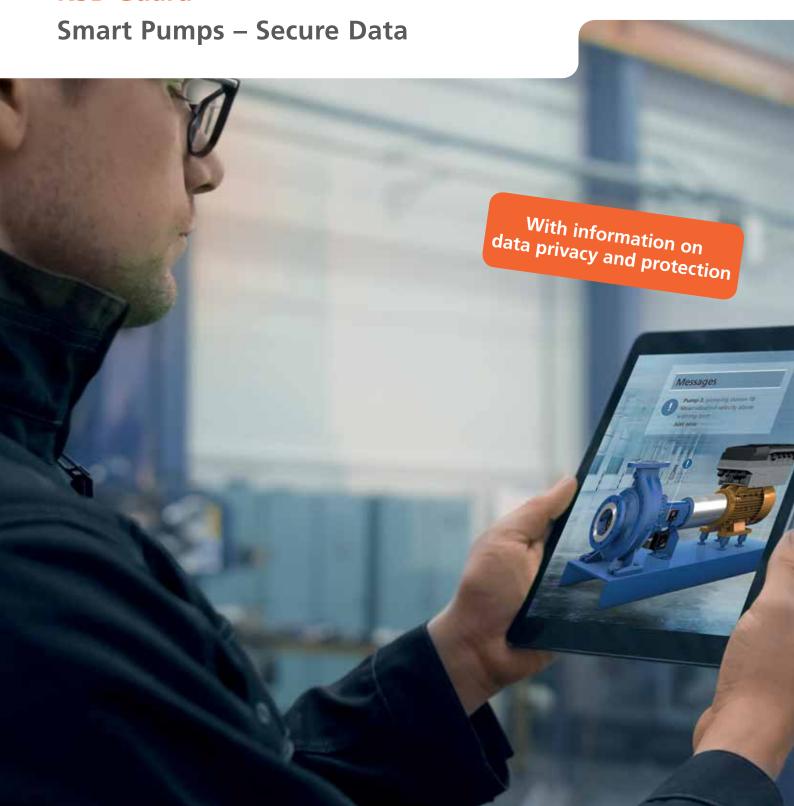
KSB SupremeServ



KSB Guard





Everything under control – guaranteed

The world of work is becoming more and more digital, with features such as networked technologies and communication between devices. KSB Guard is your ticket to the future: a digital tool that offers you comprehensive monitoring of all common pump systems. Is your system running smoothly? Are the vibration values within the limits? Do bearings need to be re-lubricated or replaced? KSB Guard enables you to keep an eye on all of this – any time, anywhere. You and your employees – and nobody else – can access the gathered data and values at any time. Because KSB Guard not only safeguards your system, it also protects your data.

More monitoring, less maintenance

How does this work? Very easily:

- A sensor unit attached to the pump records temperature and vibration data regularly and alerts you to any deviations.
- It notifies you when a bearing needs to be re-lubricated or replaced.
- All data recorded is analysed and transferred directly via a gateway to secure storage in the KSB Cloud.
- You can access your data at any time using your smartphone or another device.



Check values at the push of a button

Make inspection rounds a thing of the past. KSB Guard provides all the information you need directly on your smartphone. It displays load conditions and RMS values, reminds you to replace bearings and notifies you immediately of any deviations – all of which helps you to avoid unnecessary maintenance.

It's easy to install too

You can install KSB Guard in just a few steps – during active operation and for all makes of pumps.

Ready to go in five steps:

- Affix the sensor unit to the pump by magnet and industrial adhesive and connect it to the transmission and battery unit, which is fitted with adhesive pads.
- Mount the gateway in the room such that there is a direct line of sight to the transmission and battery unit and connect it to the power supply.
- Press the push button to activate transmission.
- Download the KSB Guard app on your smartphone or tablet or visit the web portal at www.ksbguard.net.
- Enter your pump data once and you are done.



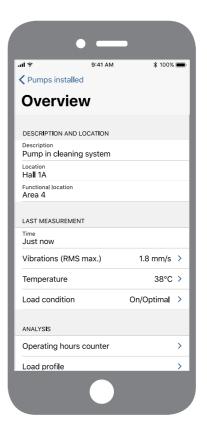


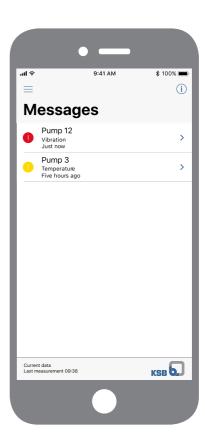




Commissioning explained step by step in a video:

www.ksb.com/industrie4-0-en





Data Privacy and Protection

Security right down the line

KSB Guard not only safeguards your system, it also protects your data. From initial reading to final storage, the entire system is set up to maximise data privacy and protection. We want you to understand exactly how our system and its safeguards work, so we will explain this step by step.

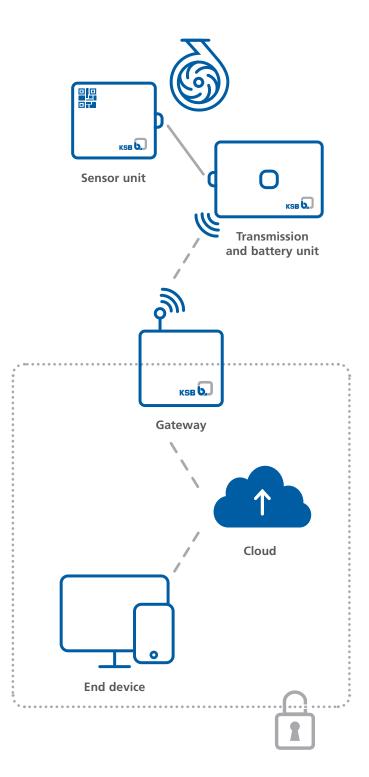
Transmission and battery unit The transmission and battery unit transfers temperature and vibration information – encrypted using TLS 1.2 technology – via MQTT-SN to the gateway. The gateway must be mounted in a direct line of sight to the transmission and battery unit. So we're still within the company premises.

Gateway

The gateway transfers the TLS 1.2-encrypted data from the transmission unit to the KSB Cloud via **the secure mobile phone network** using the **MQTT** (Message Queuing Telemetry Transport) protocol.

Cloud

Your incoming data is stored by one of the largest cloud providers on the market, which is certified in accordance with C5, ISO 27001, CSA and PCI security standards – to name but the most important ones. KSB Guard exclusively uses German locations that meet the highest security requirements. Your data is stored separately in the KSB Cloud and can only be accessed by logging in. The data is accessed by a mobile or browser-based client via https (SSL) and personal login.



04

Data protection at the highest level

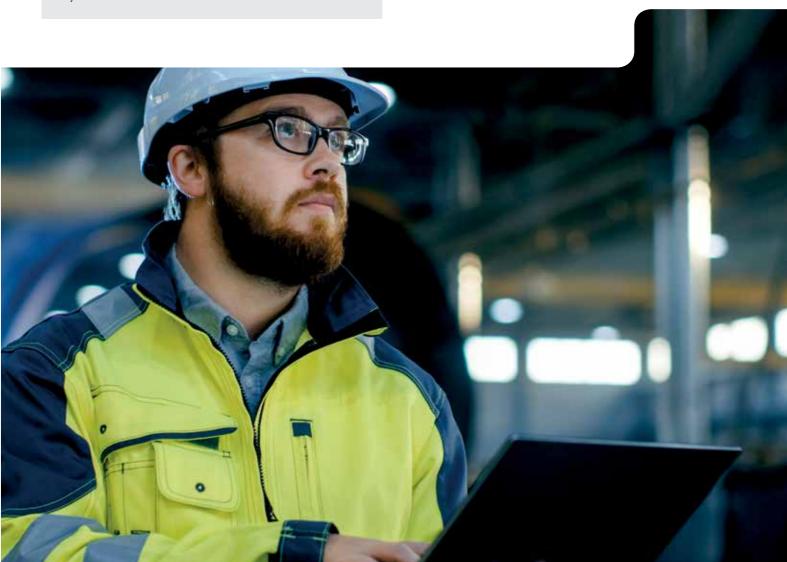
Much of the data that we divulge these days in online banking and business administration or when using apps is automatically stored in a cloud. KSB Guard also stores your system data in a cloud. Why? Because it is completely secure there. We work with one of the largest certified cloud providers on the market and our German server location meets the highest security requirements. The same goes for data transmission. All data is encrypted and transferred via a secure 1:1 connection that cannot be accessed by third parties. Nobody steals data from this cloud.

Substantial benefits guaranteed

KSB Guard is the ideal system for detecting irregularities and damage as quickly as possible. In future, we want to be able to intercept problems even before they arise using high-quality data gathered from hundreds of pumps. Your benefit: Not only do you receive information about the status of your pumps at all times, but you can also access the support you need quickly if you run into problems.

As safe as online banking

Encrypted, protected, secured, blocked, logged – we do everything to ensure that your measurement data is completely secure. You will not find such sensitive data handling or comprehensive data protection anywhere else. So, you can feel good about trusting us with your data.







The KSB Newsletter – don't miss out, sign up now: www.ksb.com/newsletter



Your local KSB representative:

