

## KSB Guard: the smart monitoring service for your pumps

### Good reasons for KSB Guard:

- Transparency of your machine data
- More operating reliability for your system
- Increased availability of your pumps and other rotating equipment
- More efficient operation and fewer CO<sub>2</sub> emissions



### Your new back office: the KSB Guard Monitoring Center

Increased vibrations and elevated temperatures are often the first warning signs of impending problems. Ongoing recording of pump data is therefore the starting point for the smart monitoring service with KSB Guard: Experienced, certified experts from the KSB Guard Monitoring Center keep an eye on the data generated by your pumps. Should any conspicuous measured values be detected, the specialists search for the root cause. Detailed analyses allow them to draw conclusions regarding the causes of anomalies.

Be it bearings, (shaft) alignment or the hydraulic system – once the cause has been identified, the monitoring experts clarify the measures to be taken with you and organise their implementation on request. The monitoring service with KSB Guard thereby ensures damage control in two ways as problems are fixed before cost-intensive malfunctions occur.

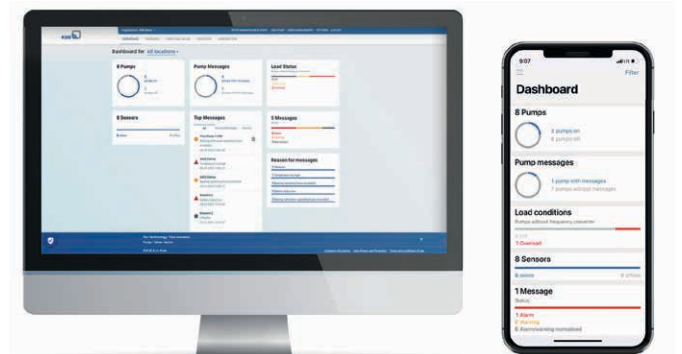
#### In short:

The smart monitoring service from KSB allows you to expand your service team with proven KSB specialists. Experts from different disciplines are always there for you – in the KSB Guard Monitoring Center, KSB One. automation support and service

# The technology behind the solution: KSB Guard hardware and software

The KSB pump monitoring solution is your sustainable entry into the IoT world. KSB Guard is climate-neutral and helps you optimise your CO<sub>2</sub> footprint thanks to a patented KSB algorithm for determining the operating point of fixed-speed pumps.

**Climate-friendly product**  
The currently unavoidable share of CO<sub>2</sub> emissions during production will be offset to net zero through the purchase of certificates.

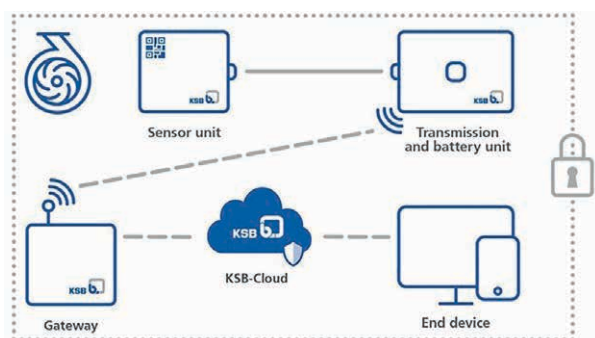
## KSB Guard sensors and gateway

The hardware can be easily retrofitted. It is mounted directly on your pump or other rotating equipment. This includes electric motors, vacuum pumps and compressors – whatever the manufacturer. The KSB Guard sensors measure all relevant data. This is transmitted to the app or KSB Guard web portal via the KSB Guard gateway and the KSB Cloud.

## KSB Guard web portal and app

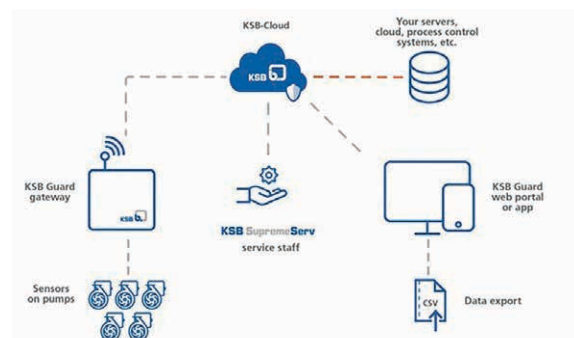
All data gathered is collated, processed, analysed and visualised in the KSB Guard software solutions. This transforms data into valuable information that can be used to derive specific recommendations for action. You can of course also access the intuitive dashboard and saved documentation relating to your pumps – around the clock from any location.

## IT security and integration: The most important information at a glance



### Data 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.



### Can you connect to your own system? No problem!

The data recorded by KSB Guard can be easily integrated into existing systems via an API data interface.



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