

KRIWAN protective equipment

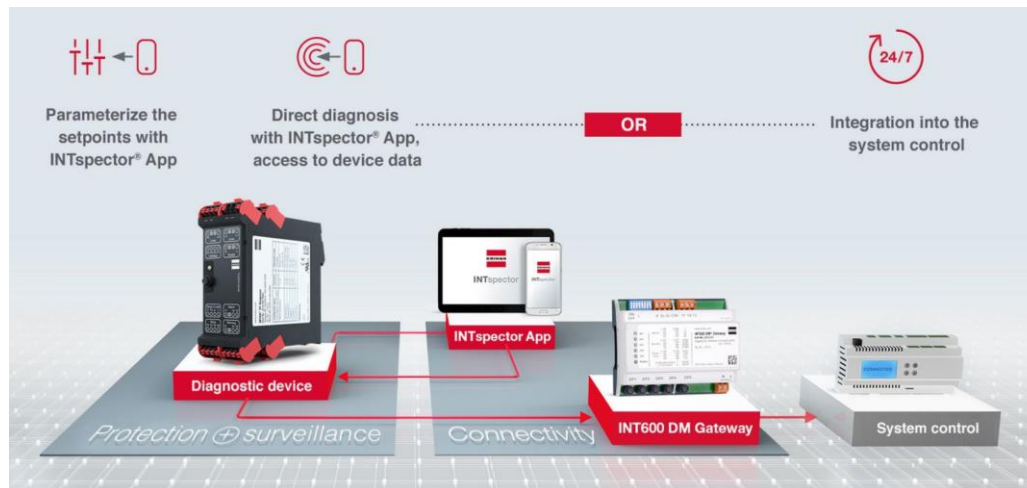


Figure 1: KRIWAN Gateways Diagnostic System

Summary of IoT case

KRIWAN offers protective gear for heat pumps and cooling units. These include monitoring of refrigerant and oil levels, differential pressure measurements for monitoring oil pumps or temperature sensors for surfaces, windings of motors or screw-in sensors. Furthermore, a module for the monitoring of compressors used in heat pumps is offered. It consists of temperature, hot gas, power supply, current and switch cycle observations and offers a quick solution for diagnostics in case of failures.

All the mentioned sensors can be combined with a gateway that enables the data to be linked via Modbus protocol to individual plant control systems. It is possible to link up to 5 devices with one gateway. Furthermore, an App allows to get diagnostic data quickly onto mobile devices. USB and Bluetooth connectivity is offered together with apps for Google, Apple and Microsoft devices. The app assists with commissioning and parameterization of the equipment as well as with maintenance and servicing tasks.

Contact information

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FACTS ABOUT THE IOT CASE

IoT category: optimize HP operation, predictive maintenance, performance benchmark, installation error analysis

Analysis method: fault detections, monitoring, diagnostics, data visualization

Data interface: USB, Bluetooth, Modbus RTU

Transmission protocol for data: Modbus RTU

Quality-of-Service: real-time diagnostics are possible, historic data is available

Technology Readiness Level: TRL 9

Link to webpage:

<https://www.kriwan.com/en/connectivity>