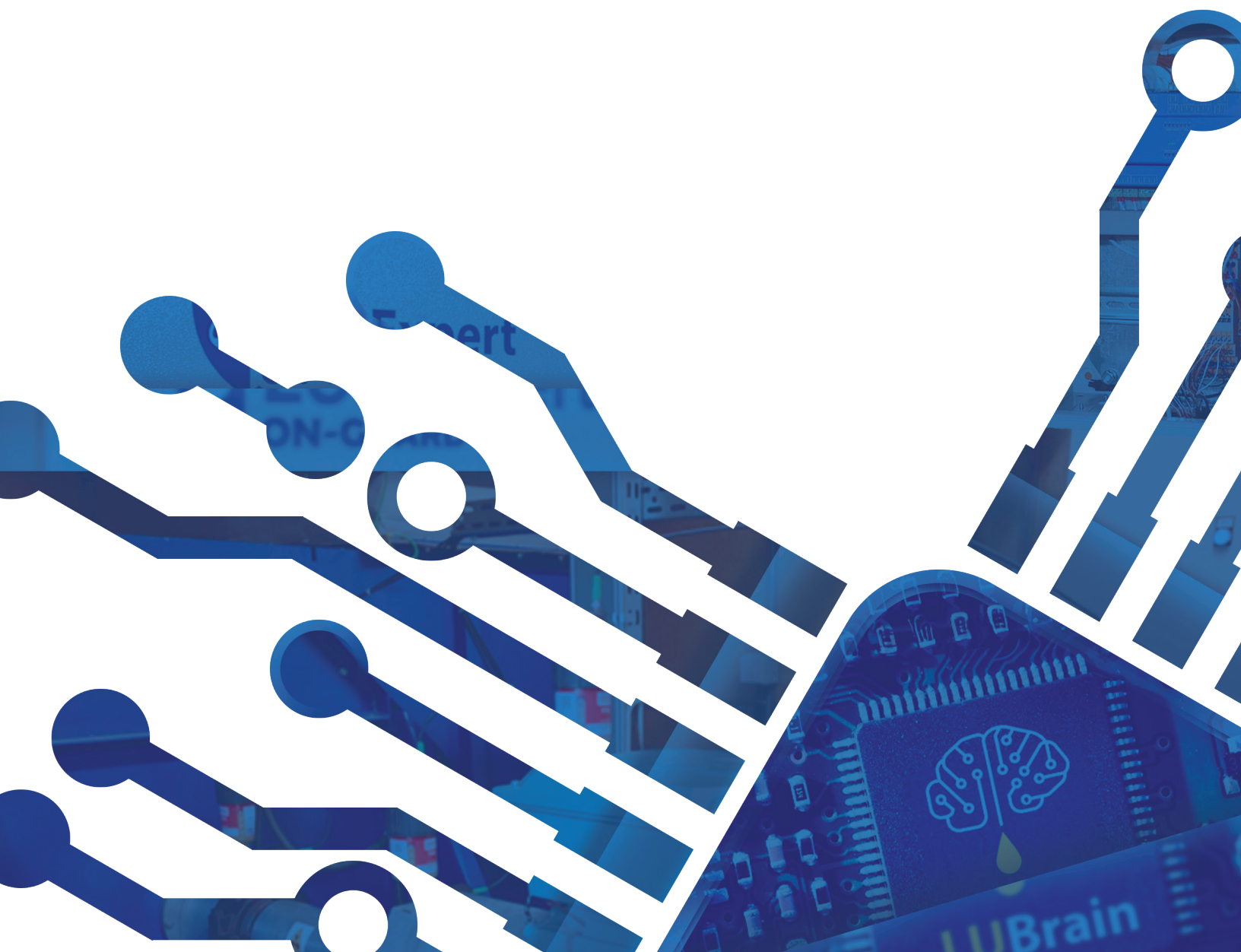
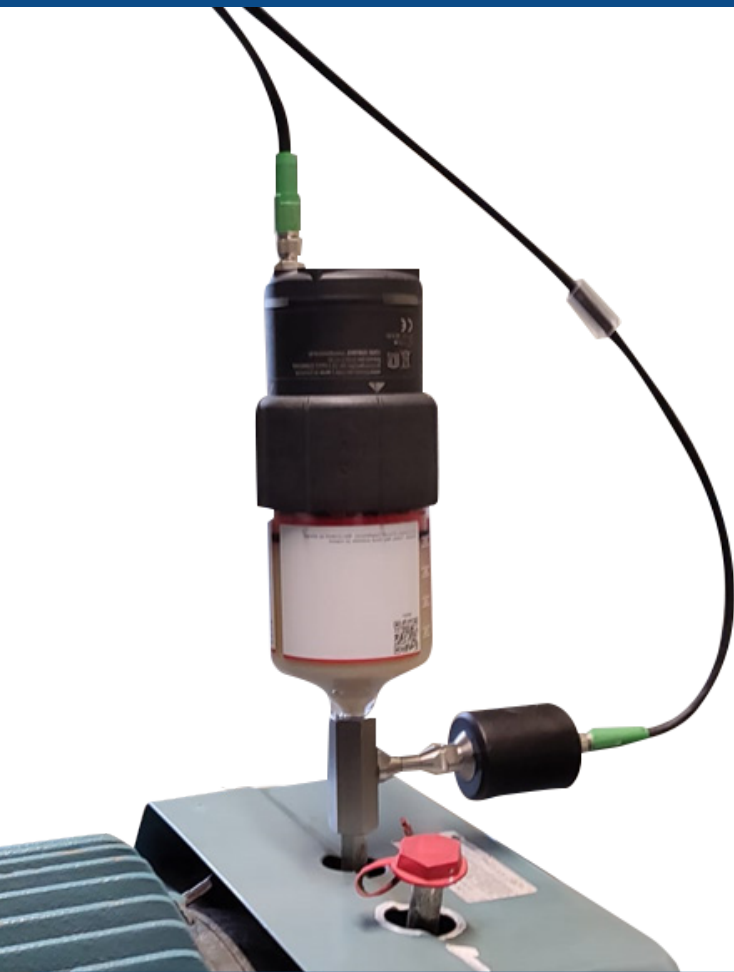


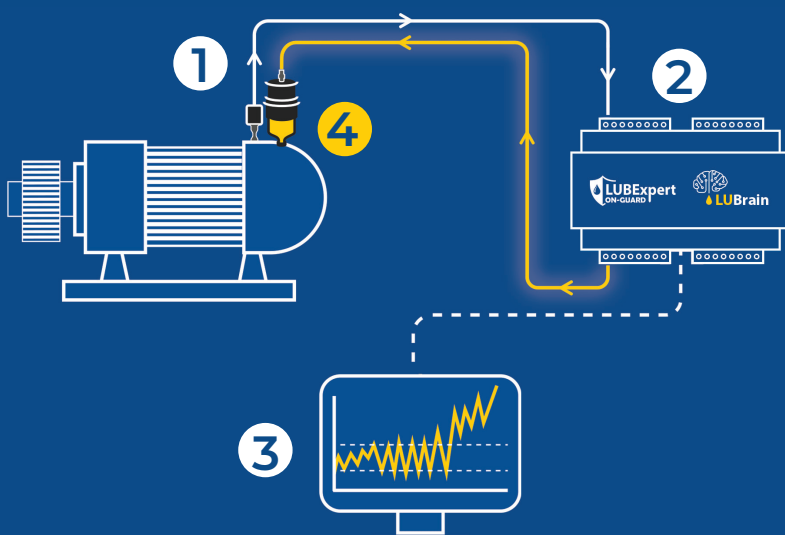




CONDITION-BASED AUTO-LUBRICATION SYSTEM

ON-GUARD combines the convenience of automated lubrication with the precision of ultrasound and the reliability of continuous condition monitoring.

ON-GUARD continuously monitors friction levels and bearing health, applying grease intelligently as needed. By leveraging real-time and historical data, it ensures optimal lubrication, preventing over- and under-lubrication failures while saving maintenance teams time, resources, and costly grease waste.



- 1 COLLECT** real-time data with the COMMONSense 4-20mA ultrasound sensor.
- 2 AUTOMATE** greasing decisions based on historic and real-time data through the LUBrain™ Algorithm.
- 3 MANAGE** & configure your system and analyze lubrication data with ON-GUARD's Embedded Software.
- 4 DELIVER** lubrication with precision and only when needed.

KEY FEATURES



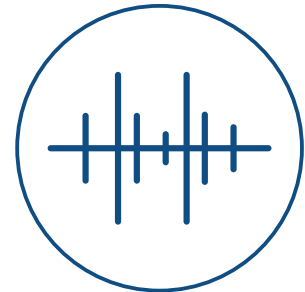
LUBrain™

LUBrain™ powers ON-GUARD to automatically lubricate bearings with precision, using real-time and historic data to maintain a perfect lubricant film at all times.



MONITOR UP TO 8 POINTS

ON-GUARD comes equipped with the sensors, lubricators, grease cartridges, cables and lubrication lines (5-30 meters) to monitor 8 points per system.



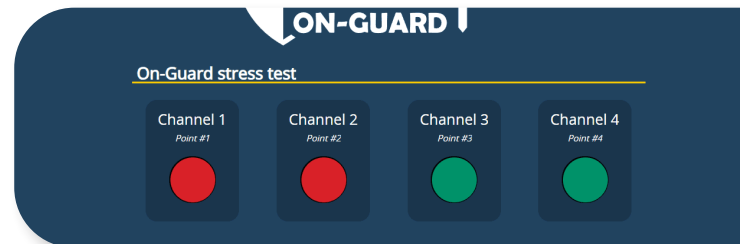
DATA COLLECTION

ON-GUARD's browser-based software tracks lubrication events, monitors performance, and provides real-time insights for data-driven decision making, helping optimize your lubrication management.

ON-GUARD'S EMBEDDED SOFTWARE

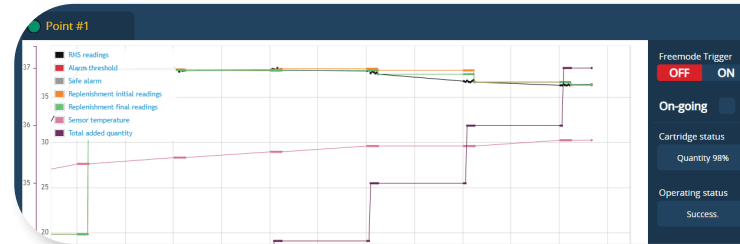
Asset Stress Test

Gain a comprehensive view of your system at a glance with the ON-GUARD Stress Test Snapshot. Enjoy the peace of mind that comes with ON-GUARD's blend of automation, precision measurements, and patented data-driven decision making.



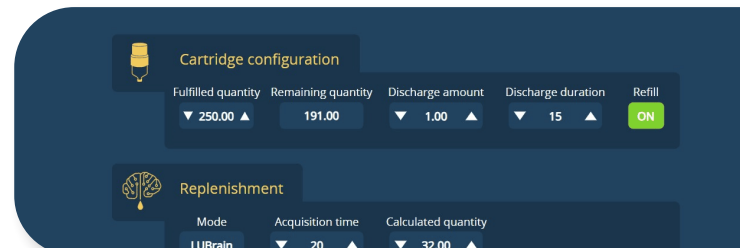
Trending Lubrication Data

Operators can view the entire process from the convenience of their web browser, no matter their current whereabouts. Continuously monitor friction levels & a number of other parameters from the integrated browser-based dashboard.



Custom System Configuration

LUBExpert ON-GUARD adapts to your assets and workflow. Configure cartridge size, injection quantity, speed, and time intervals to match your needs. Choose between Manual or LUBrain™ measurement modes for precise, efficient lubrication.



GENERAL

Function	Smart ultrasound assisted lubrication system
Number of lubrication channels	x8 (Analog Inputs + Relay Outputs)
Power supply	24 V DC
Operable with	SDT COMMONSense RSC 101 TRUE 4-20mA Contact Sensor - Single point electromechanical lubricators

FEATURES

Application installed	SDT LUBExpert ON-GUARD (WEB server)
Memory Storage	32 GB (SD card)
Network interface	LAN 1 Gbit
Default IP address (static configuration)	10.8.2.150 (port 80)
Communication mode	Static/DHCP
Industrial communication	MODBUS server, TCP port 503 *see user manual for register map

INPUTS/OUTPUTS

Number of Analog Inputs	8
Type of data	Static (RMS only)
DC range	4 to 20, converted in dB _{[μV]RMS}
Ultrasound measurement range	[20-100] _{[μV]RMS}
Monitoring period	-1 ultrasound reading every second, -1 T° reading every minute
Default status	Ultrasound reading (RMS)
Number of Relay Outputs	8
Mode	Impulse control required
Replenishment modes	• Predefined amount of lubricant, • SDT LUBrain
Default compatibility (recommended, Lubricant not supplied)	Model Perma STAR CONTROL (see specifications) Contact SDT for the validation of additional lubricators
Lubrication strategy/triggering options	• Free mode/Manual, • Time based/Operating time, • On Alarm + occurrences
Storage strategy	1 ultrasound value/hour, + 1 T° reading/hour (averaged based on the acquisition time), + lubrication history (initial reading, final reading, last added qty, time, status)

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