

## Reliable Liquid Level Measurements even at High Temperatures

*Many Liquid Level Sensors are not sufficiently reliable at high temperatures, which can be problematic when working with heat recovery systems like Danish Exodraft Energy. The solution is the HBLT-A3 sensor, which provides precise and reliable liquid level measurements over a wide thermal range.*

Designed with cutting-edge technology and precision engineering, the HBLT-A3 capacitive Liquid Level Sensor offers unparalleled accuracy and durability for various applications. Whether you're monitoring liquid levels in industrial tanks or refrigeration systems, the Liquid Level Sensor ensures optimal performance and peace of mind. With the advanced HBLT-A3 you will experience seamless integration, effortless installation, and dependable operations.

### The Exodraft Energy challenge

In 2022, Exodraft Energy - a leading supplier of heat recovery solutions - was searching for a Liquid Level Sensor for its ammonia containers. The main requirement was that it be capable of handling both cold and warm temperatures up to 70°C (158°F). Exodraft Energy had previously used the HBLT-A2 sensor but encountered operational issues and switched to a competitor product. However, this product failed to deliver and meet Exodraft Energy's expectations. After a dialogue with HB Products, they chose to install the latest updated version of the HBLT.



The HBLT-A3 was installed in May 2023, and Exodraft Energy has been very pleased with their choice and the service they received from HB Products in the switch. The Liquid Level Sensor has provided reliable and precise performance across the required thermal spectrum. With assistance from the HB Products support, Exodraft Energy has integrated the HBLT-A3 into its operations without incident.



*"HB Products' advantages extend beyond more than product performance. An unmatched standard of service complements their competitive pricing. Whenever we require assistance, we always get a great service level," - Martin Krarup, Project Technician at Exodraft Energy.*

### HBLT-A3 Specifications

The HBLT-A3 capacitive Liquid Level Sensor is designed for precise and reliable measurement of liquid levels in refrigerant vessels, heat pumps and other industrial applications. The HBLT is also a perfect solution in turbulent conditions like marine applications.

It is not temperature sensitive, and thus provides precise measurements across a range of refrigerant temperatures from -60°C to 110°C (-76°F to 230°F) and in ambient temperatures from -30°C to 50°C (-22°F to 122°F). Featuring a unique split design, installation and diagnostics are simplified, saving time and effort during setup and troubleshooting. This also allows seamless updates between different models without replacing the entire unit. For instance, going from HBLT-A1 to HBLT-A3 is as simple as swapping out the electronic head.

It is typically installed in chillers, pump separators, coolers and condensers, and the Liquid Level Sensors can be mounted in vessels, containers, and standpipes. The HBLT-A3 is an intelligent sensor with a built-in microprocessor. It can be configured for controlling modulating motor valves, stepper valves or a PWM valve.

For any inquiries or further information, please don't hesitate to contact us at [support@hbproducts.dk](mailto:support@hbproducts.dk)

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