DANISH TECHNOLOGICAL INSTITUTE

Evaluation of DanTaet L-PS-X

DanTaet Electronics a/s

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Requester

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1 Description of the task

Teknologisk Institut has been tasked to evaluate DanTaet System L-PS-X. The evaluation is based on a technical review of the system undertaken together with the manufacturer, and a subsequent review of User and Factory manuals for the system.

2 Description of the system

DanTaet L-PS-X is designed for monitoring sensitive areas for water aggregation by means of up to eight liquid sensors type LS-X.

The liquid sensors respond to water aggregation touching both its electrodes.

	Main components: • 1 control unit type L-PS-X • Up to 8 liquid sensors type LS-X • Supports connection cables up to 100 meters

Lifetime expectancy for the liquid sensors is high, as the sensors are fully moulded with gold plated electrodes. The bult-in electronics is protected from moisture by the resin mould. The sensor design prevents erroneous orientation when lowered into e.g. a shaft

The system integrates with AERS for alarm propagation, visualization and remote control.

AERS is a system for propagation of alarms and acquisition of consumption data from DanTaet leakage protection systems, and for the remote control thereof. The customer

receives alarms as text or e-mail, and can access his DanTaet systems in an Internet browser on a smartphone, tablet, laptop or PC. AERS visualizes the build-up to an alarm, and permits the customer to restart the system. Likewise, AERS provides access for DanTaet technicians to the system's configuration interface.

Event logging takes place both locally and in AERS.

3 Installation of the system

A complete installation guide for electrical installation is provided.

4 Description of operation

The system's user manual explains functions available on the front panel, as well as the meaning of each front panel indicator.

5 Description of function

The system monitors the active sensor channels for disconnection and shorting of sensor cable,
and for water aggregation at the sensor.

The water aggregation response time is selectable 10 seconds or 30 minutes.

The control unit handles multiple concurrent alarms.

6 Overall assessment

The view of the Institute is that L-PS-X offers a series of integrated functions for alarming and user-friendly control, providing optimal protection from water aggregation.

L-PX-X is an advanced monitoring system, suitable for small and large buildings. It ensures monitoring, as well as error reporting, and is suitable for integration with building automation.

The system is highly functional on a technical level, offering the customer substantial protection from water damage by water aggregation. The system is further developed for ease of use, even for non-technical personnel, thus avoiding misconceptions.