DANISH TECHNOLOGICAL INSTITUTE

Evaluation of DanTaet KMP-V

DanTaet Electronics a/s

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Requester

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Table of Contents

1 Description of the task

Teknologisk Institut has been tasked to evaluate DanTaet System KMP-V, which comprises a leakage protection system for supply water.
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 system KMP-V is a leakage protection system for use in supply water installations of any size. The system employs pulsing ultrasonic flow meters, possibly accessed via a data interface. The system continually monitors the supply water installation, issuing alarm in case of seepage or leakage. On leakage alarms, the installation is cut off.

DanTaet System KMP-V comprises the following main components:

	• 1 control unit, model 200 shown here • 1 flow meter, possibly including a water meter • 1 electrically actuated cut-off valve

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.

In addition to leakage monitoring, the system regularly provides self-testing with subsequent alarm on failure for the following:

- Flow meter error
- Valve error
- Liquid sensor error, if liquid sensor attached
- Communication error (if calculator attached)
- Power supply error
- Mains error (230 V ac error)

The system is factory preset to a standard configuration but is subsequently adapted to the actual installation and its pattern of consumption by DanTaet's technicians by way of AERS.

3 Installation of the system

A complete installation guide for plumbing and electrical installation is provided.

4 Description of operation

The system design emphasizes an uncomplicated user interface to minimize risk of user errors.

The system's user manual explains functions available on the front panel.

The front panel of the KMP-V model 200/300 features a text display which either conveys actual monitor state or error state in case of alarm. KMP-V model 100 indicates alarm on an LED; specifics are obtained via DanTaet AERS. The front also features keys for Alarm Reset, manual valve closure, Holiday mode select or Free Discharge.

5 Description of functions

Monitoring can be done in two phases corresponding to property in use vs. property vacated. Phase may be controlled from a burglar alarm system, or (model 200/300) automatically via attached motion sensors. Settings may be adapted to accommodate particular circumstances as required by e.g. authorities.

6 Overall assessment

The view of the Institute is that KMP-V offers a series of integrated functions for alarming, cut-off and user-friendly control, providing optimal leakage protection as well as flexibility in operation and settings.

KMP-V is an advanced leakage protection system, suitable for small and large buildings. It ensures monitoring, error reporting and fast cut-off, 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. The system is further developed for ease of use, even for non-technical personnel, thus avoiding misconceptions.