

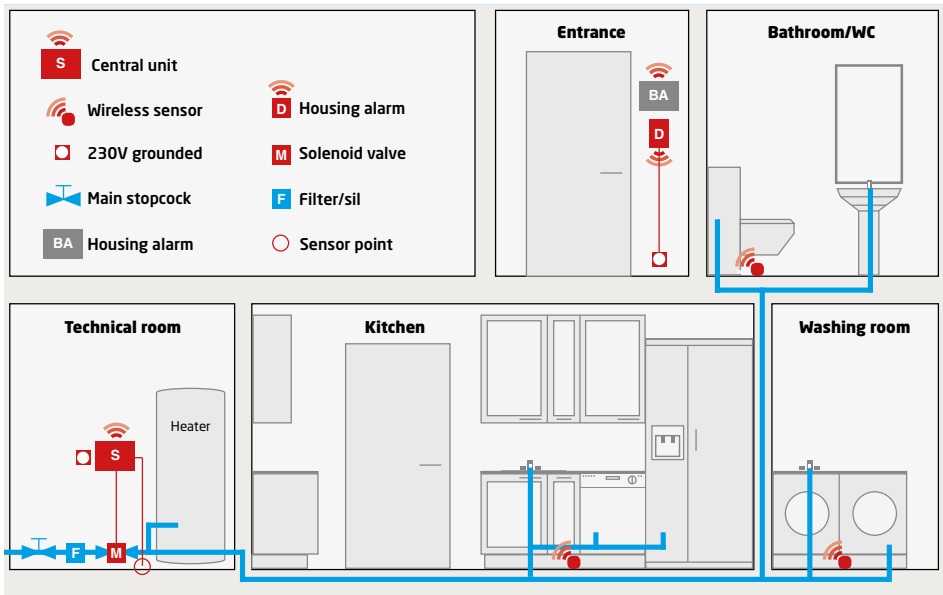


INSTALLATION
USER MANUAL

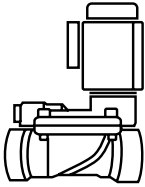
SMART BASIC



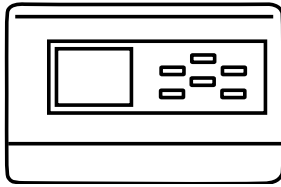
PRINCIPLE SKETCH



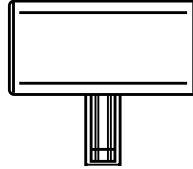
INCLUDED COMPONENTS



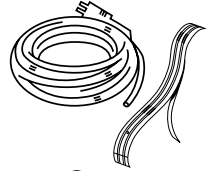
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❶ SOLENOID VALVE

Danfoss solenoid valve - comes in 1/2" and 3/4"

❷ CENTRAL UNIT

Powers the solenoid valve(s) and receives signals from the sensors. Has a power outlet for dishwashers etc. In case of a water leak the power is cut.

❸ WIRELESS SENSORS

Two sensors to be placed where risk of water leak is present.

❹ SENSOR CABLE AND SENSOR TAPE

4 meters of sensor cable is cut to desired length and is pulled from the central unit. 3 meters of sensor tape to extend the sensor range.

ABOUT SMART BASIC

Waterguard SmartBasic is a highly advanced wireless system. Best used in homes and commercial buildings where several rooms need to be monitored. The system can be upgraded with the necessary number of sensors. With optional valve and pressure sensor Smart Basic can be used for pressure testing the pipes to detect hidden leaks. The system is also ready for connection to alarm systems.

INSTALLATION INSTRUCTION

SOLENOID VALVE

1. The solenoid valve is preferably mounted on the cold water intake after the main stopcock. If fire hose is installed, the solenoid valve **MUST** be installed after that.
2. The solenoid valve can be installed horizontally or vertically. When installed horizontally, the electric coil must never face downwards..
3. The solenoid valve must be installed in the direction of waterflow, see arrow on the housing.
4. Plug the power into the solenoid valve, use the included rubber gasket between contact and valve. Fasten with the included screw.

NB: Filter **MUST** be installed where water can be contaminated by dirt or particles.

CENTRAL UNIT

1. Fix the central unit on the wall close to the solenoid valve.
2. Connect the solenoid valve cable.
3. Fasten the sensor cable and lay it to the area to be monitored. Remaining areas are monitored with the wireless sensors.
4. Plug into a 230 volt grounded socket.

NB: Always test the system after installation. Moisten all sensors with a wet cloth or similar and check that the valves close. Push RESET on the control panel to open the valves again. The system should be tested twice annually by the user.

REGISTRATING WIRELESS SENSORS

1. Be sure to have control panel and sensors close by.
2. Insert the two AA batteries (included) in the sensor(s) by tilting off the lid.
3. Now activate the sensor by pushing the small button located close to the batteries in the sensor. Communication sensor/central is now active, with the sensor registered with the selected area.

INSTALLATION INSTRUCTION, continued...

PLACING THE WIRELESS SENSORS

1. The sensors can be placed in the included bracket, fastening it on a wall with the sensor tip facing the floor.
2. The sensors can also be layed flat down on the floor – without the bracket since the sensors also have sensor points on the underside.
3. The sensor range can be extended with the included sensor tape. Place the sensor in the bracket and fasten in on a wall with the sensor tip just a few centimeters above the floor. The sensor tape is inserted in the opening under the sensor. The sensor tape must be max 0.5 meters long.

WIRING DIAGRAM

Connection to sensor cable.

1	230 V	L	Phase	Mains voltage, grounded
		N	Phase	
		GND	Ground	
2	Valve	L	Phase	Connection for solenoid valve
		N	Phase	
		GND	Ground	
3	Alarm	NO	Normally open	Alarm port. Relay that can be connected as normally open or normally closed.
		C	Common	
		NC	Normally closed	
4	SO	+	Positive terminal	Smart Basic is prepared for Ista pulse meter with 1l/pulse connection for 1.
		-	Negative terminal	
5	SO	+	Positive terminal	Tilkobling for vannmåler 2. Connection to water meter 2.
		-	Negative terminal	
6	Water sense 1	1	Terminal	Connection to sensor cable.
		1	Terminal	
7	Water sense 2	2	Terminal	Connection to sensor cable.
		2	Terminal	
8	4-20 mA	+	Positive terminal	Connection to pressure sensor gauge
		-	Negative terminal	
9	USB			For service only
10	Ethernet			CAT5 ethernet cable or better
11	SIM Card			If the unit supports alarm via SMS, insert SIM card here.

USER MANUAL

In normal operation, the display is dark. To test the central push OK for options. Push CANCEL to return to normal mode.

When a leak is indicated in the display and with alarm signals, you either have a leakage or the sensors have been activated by f.ex. washing. Dry the sensor and check the water pipes for cracks or leaks. Then, if everything is OK, push RESET on the central unit. Test the sensor points at least twice a year. Moist the sensor points and check that the valves close the water. Open the valves again by pushing RESET.

USER PANEL MAIN MENU

Close water	Manually close the water
Water consumption	Check water consumption
Pressure test	Active only when pressure sensor is installed.
Configuration	Enter configuration menu (for installer)
SMS	Functions to configure SMS sending
Status	Displays system status

SMS-MENU

SIM PIN	Register PIN1 for SMS card here.
Telephone	Register phone number for receiving alarm messages here

BATTERY CHANGE

Approx. every 5 years the sensor batteries must be changed. Tilt up the sensor lid using a small screwdriver or similar, and replace the batteries. Push test button to check that light A flashes green. Replace lid and put sensor back in place.

PLACING WIRELESS SENSORS

Wireless sensor 1 is placed:

Wireless sensor 2 is placed:

INSTALLED AND TESTED BY

Name: Date: Company: