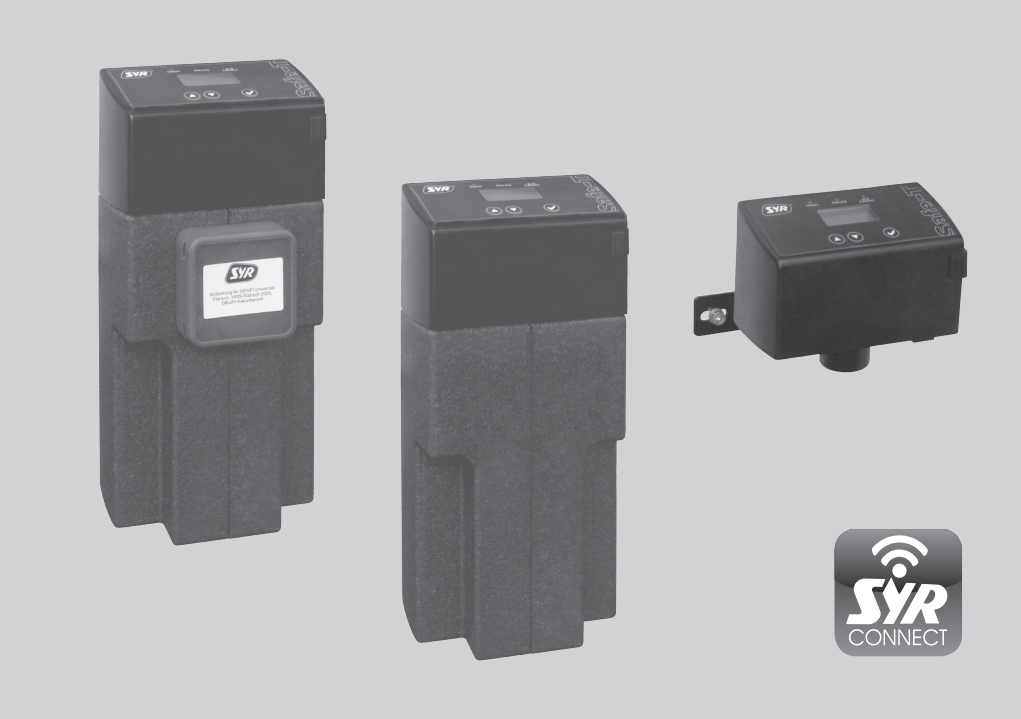
ISI Objekt 2421

Leakage detector for large buildings



Field of application

The ISI (**I**nternet-based **S**warm **I**ntelligence) Home System is designed to monitor various preset consumption values in a potable water installation - for instance in a single-family house - and offer protection against leakage. Each housing unit is monitored by an individually preset slave module. The Safe-T Connect Master supervises the central installation and coordinates the various consumptions. When a module records that the maximum parameters have been exceeded, this module will shut off the corresponding segment, whereas the others will continue to work. All devices communicate with each other via Internet where their specifications can be read and programmed.

Design

The monitoring electronics of the Safe-T Connect Master and its slave modules are able to identify leaks. When exceeding the pre-set values, the whole installation will be shut off. All devices have a socalled Away Level offering intensified monitoring when nobody is at home. All important functional data can be set by means of the management and diagnosis system. As an option, other devices (slave or hygiene modules) can be added individually to extend the ISI Object system.

Materials

The body is made of a high-quality low-lead brass-alloy. The rubber parts are made of ageingresistant elastomeric material. All remaining functional parts are made from stainless steel. All materials used are state-of-the-art. The synthetic and elastomeric parts in contact with water meet the requirements of Germany's Federal Environment Agency (KTW Directives).

Installation

Use a DN 20 - DN 32 flange from our large flange program when mounting the ISI Object device. Fit the Safe-T Connect Master as centrally as possible behind the water meter in the pipe. Mount the slave modules to protect specific tubes.

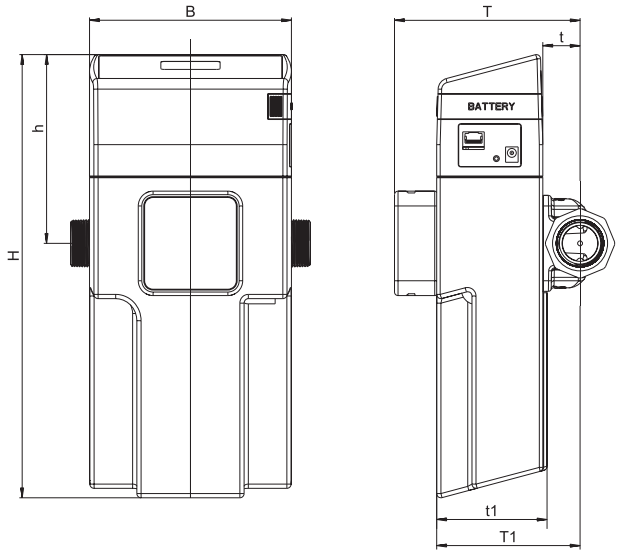
Thoroughly flush the pipe prior to installation. Mount the required connection flange in vertical or horizontal pipes under consideration of the direction of flow.
Do not apply stresses. All electric connections are factory-mounted.

Technical specifications

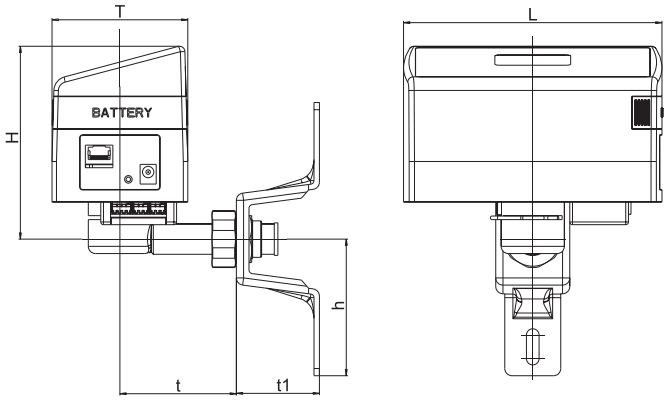
Operating temperature:	max. 30 °C
Ambient temperature:	10 - 60 °C
Nominal pressure:	16 bar
Mounting position:	main axis in vertical position
Fluid:	potable water
Protection class:	IP 21
Batteries:	4 x LR06
Voltage power supply unit:	9V DC
Load external potential-free contact:	IN 2: minimum 12V / 20 mA Out: maximum 24V / 2A
Starting threshold:	5 Liter/h
Flow rate:	DN 20: 2.0 m^3/h at 0,2 bar Δp DN 25: 2,3 m^3/h at 0,2 bar Δp DN 32: 2,5 m^3/h at 0,2 bar Δp DN 20: 3,5 m^3/h at 0,5 bar Δp DN 25: 3,8 m^3/h at 0,5 bar Δp DN 32: 4,0 m^3/h at 0,5 bar Δp DN 20: 5,2 m^3/h at 1,0 bar Δp DN 25: 5,7 m^3/h at 1,0 bar Δp DN 32: 6,0 m^3/h at 1,0 bar Δp
Serial number:	2421...

Maintenance

The ISI Object valves require no maintenance.



Safe-T Connect
Master and Slave



Safe-T Connect
communication module

Nominal size		DN 20 - DN 32
Dimensions Safe-T Connect Master / Slave	T (mm)	131,5
	t (mm)	26,5
	T1 (mm)	101,5
	t1 (mm)	78
	H (mm)	314
	h (mm)	133,5
	B (mm)	143
Dimensions Safe-T Connect Communication module	L (mm)	143
	H (mm)	107
	h (mm)	76
	T (mm)	75
	t (mm)	40 - 70
	t1 (mm)	46

Components / Order numbers

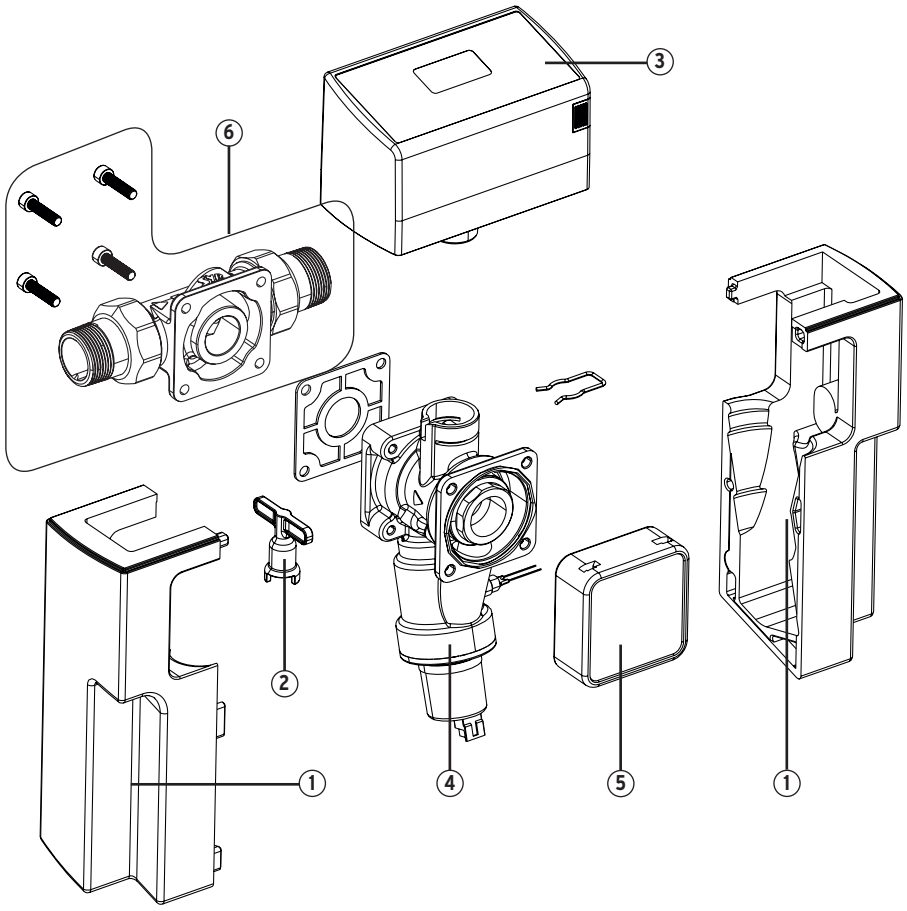
① Insulation

② Emergency-off key

③ Control unit

④ Body

⑤ Sealing cap
2320.00.901



Accessories

⑥ Connection flange
DN 20 2421.20.005
DN 25 2421.25.005
DN 32 2421.32.005

Max-connection flange
for 2- and 3-way manifolds
DN 32 2421.32.015
DN 40 2421.40.005
DN 50 2421.50.005

2-way manifold
2421.00.018

3-way manifold
2421.00.019

Flow sensor
2421.00.021

Humidity sensor
2421.00.022

Power supply unit (no pict.)
1100.00.900