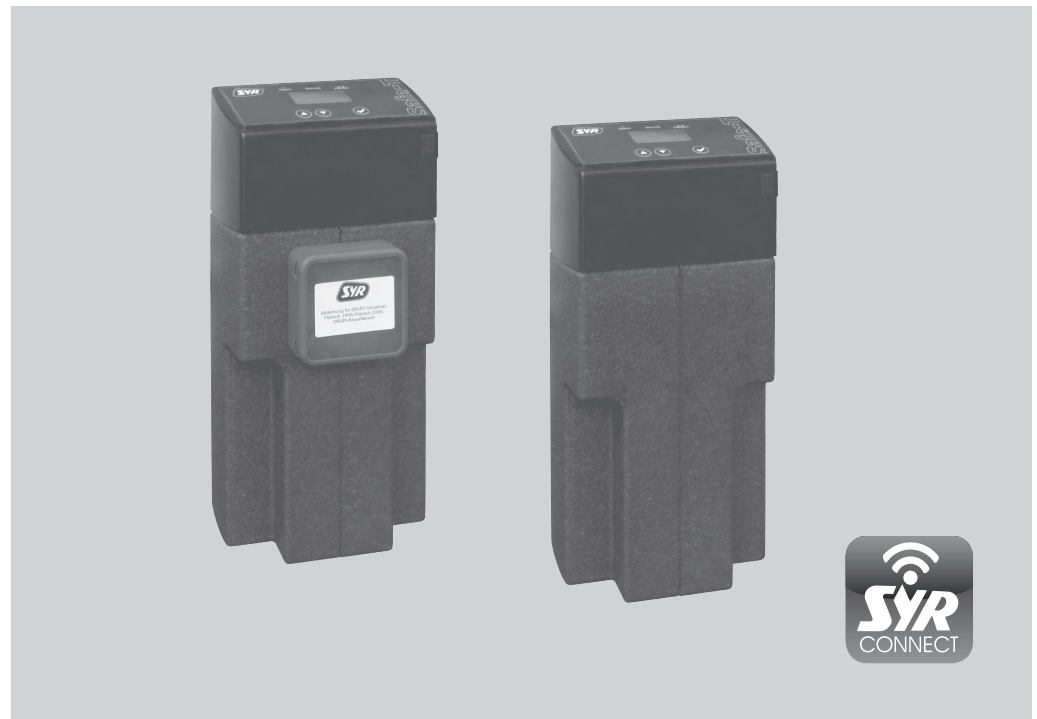


ISI Home 2421

Leakage detector for single-family homes



Field of application

The ISI (Internet-based **S**warm **I**ntelligence) Home System is designed to monitor various preset consumption values in a potable water installation and offer protection against leakage. The Safe-T Connect Master monitors the central

installation and the slave module protects separate installation segments (e.g. a garden). Both 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 Slave are able to identify leaks. When exceeding the pre-set values, the whole installation will be shut off. Both devices have a so-called 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. Other slave devices can be added individually to extend the ISI Home System.

Materials

The body is made of a high-quality low-lead brass-alloy. The rubber parts are made of ageing-resistant 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 Drufi - flange program when mounting the ISI Home device. Fit it in the pipe either directly behind the water meter to ensure overall protection or in a

specific pipe to protect a single tube. The Safe-T Master can be used as single device, but also in combination for instance with a Drufi.

Thoroughly flush the pipe prior to installation. Mount the required Drufi connection flange in vertical or horizontal pipes under consideration of

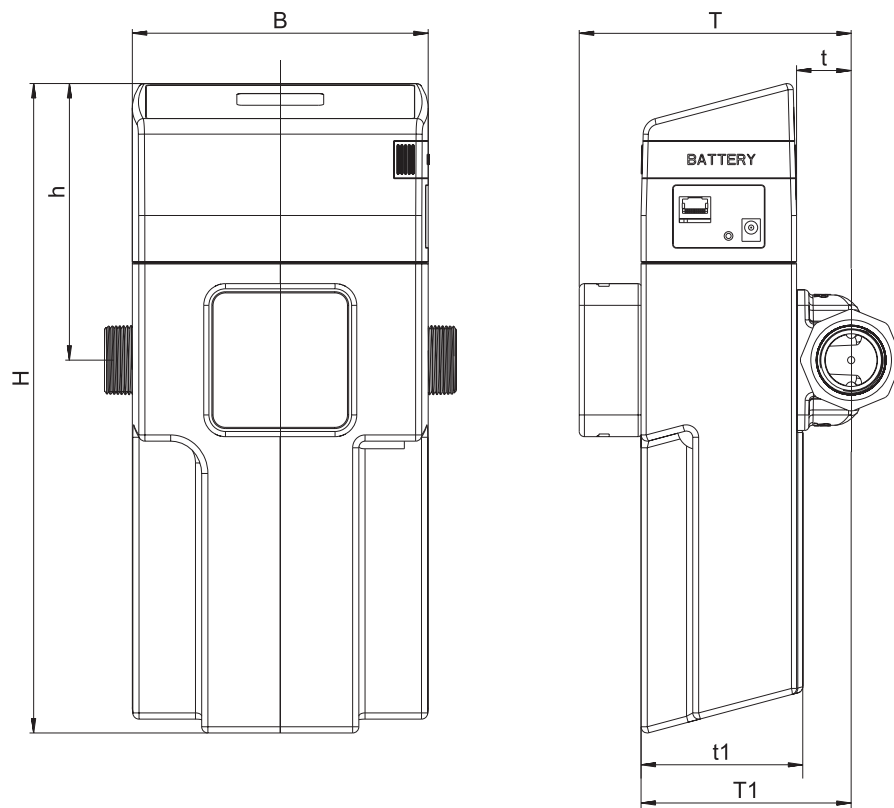
the direction of flow. Do not apply stresses. All electric connections are factory-mounted.

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 Home valves require no maintenance.



Nominal size	DN 20 - DN 32	
Dimensions	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

Components / Order numbers

①
Insulation

②
Emergency-off key

③
Control unit

④
Body

⑤
Sealing cap
2320.00.901

Accessories

⑥
Drufi universal flange
DN 20 2315.20.005
DN 25 2315.25.005
DN 32 2315.32.005

Power supply unit (no pict.)
1100.00.900

Floor sensor
2421.00.021

Humidity sensor
2421.00.022

