

Domestic hot water

Citizen, Healthcare, Education, Hospitality, Restaurants

The stakes of daily control of domestic hot water are high. This protects the **comfort** (water reheating time), **safety** and **health** of the occupants, since hot water is a source of burns and serious infections in the event of contamination.

The solution

- + Autonomous sensor for measuring the inlet and outlet temperature of hot water.
- + Simple visualization of all your assets.
- + Automatic alerts and notifications.
- + Trusted solution referenced **UGAP**.

The Benefits

- + Regulatory compliance and occupant information.
- + Implementation of an action program adapted to the occupants.
- + Water temperature management for the most fragile people.
- + Management of infectious and parasitic risks.

What the regulations say

Order of 30/11/2005 relating to fixed installations for heating and hot water supply.

Maximum temperature at the point of drawdown to limit the risk of burns :

- 50 °C in rooms intended for toilet use,
- 60 °C in other rooms,
- 90 °C in kitchens and laundries in establishments receiving the public with special signage.

In order to limit the risk related to the development of legionella. In the 24 hours prior to use, the water temperature must be between 50°C and 55°C at any point in the distribution system.

Did you know that?

A deep burn of the skin is () :*

- 1 second exposure to water at 70°.
- 7 seconds of exposure to 60° water
- 8 minutes exposure to 50° water
- For children aged zero to four, the risk of burns is three times greater. They account for 15% of hospitalized patients, whereas they make up only 5% of the population.

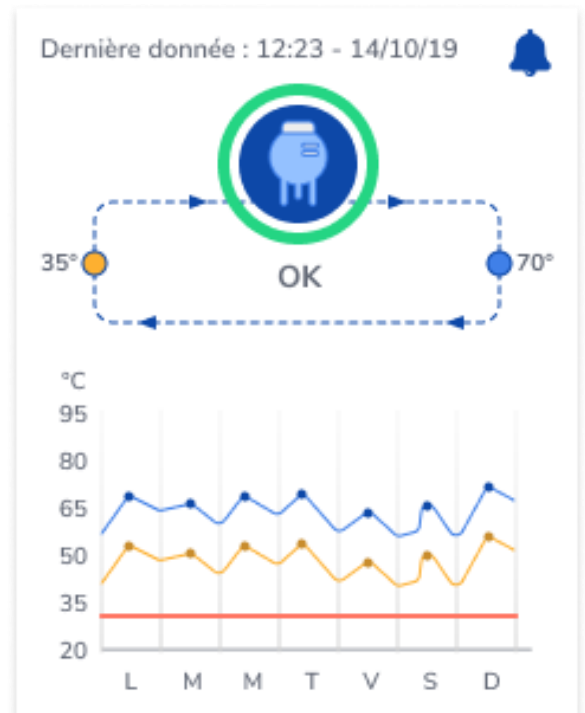
Infectious and parasitic risk: The degree of seriousness of water-related pathological manifestations varies greatly, ranging from more or less serious gastroenteritis and parasitosis to skin or lung damage, sometimes fatal.

(*) WHO Statistics from European Home and Leisure Accidents Surveillance System

Smati application

- Collection, processing and restitution of input and output temperature data.
- Immediate visualization of the installation situation.
- Display of the evolution of the temperatures in real time.
- Pre-configured and easily configurable notification alerts.
- Possibility to define different access and use rights.

ECS



Sensor: Remote Temperature 2 Probes

- Two remote probes to measure inlet and outlet temperatures.
- Operating Temperatures : -25/+70°C.
- Stainless steel contact probe tip diameter 5 mm
- Measurement of instantaneous temperatures
- Differential data compression
- >10 years of autonomy (data compression mode)



Connectivity: Objenious by Bouygues Telecom

- 1st national network dedicated to connected objects.
- 95% of the population and more than 30,000 municipalities covered.
- 100% integrated into the SMATI environment.