



Phone: (215) 788-8485
 www.H2ODegree.com
 info@H2ODegree.com

Utility Management
 Submetering & Tenant Billing
 Thermostat Control
 Flood & Leak Detection

LEAK & FLOOD DETECTION SOLUTIONS

H2O Degree's LoRaWAN Enabled Water Leak & Flood Detection Solutions for Multi-Family and Commercial Buildings



LoRaWAN™ Wireless

H2O Degree is the leading provider of submetering, utility management, leak & flood detection solutions for multi-tenant residential and commercial facilities.

Our LoRaWAN compatible wireless systems are the ideal choice for proactively monitoring and eradicating water leaks and flood events from a variety of sources including toilets, washing machines, hot water heaters, showers, and more.

WHY H2O Degree

- ✓ Low-cost, easy to install solutions for new or existing buildings.
- ✓ Identify leak and flood events and transmit instant alerts to building/maintenance staff.
- ✓ Avoid costly damage to building and tenant spaces and reduce water usage costs.

LoRaWAN Wireless Flood Sensors

H2O Degree's wireless leak/flood sensors provide users with a cost-effective, easy-to-install solution for all of your water leak and flood detection applications. Whether in a new or retrofitted facility, these sensors monitor equipment and areas prone to water leaks and send instant alerts to facility management to quickly address the issue before equipment and property damage occurs.



Water Leak/Flood Sensor

LS4000 flood sensor installs easily and is designed with two probes to attach to areas prone to leaks for wider coverage. The LS4000 is ideal for monitoring leaks or flooding from individual plumbing fixtures such as toilets, sinks, hot water heaters, washing machines, etc.



Rope Flood Sensor

The LS5000 flood rope sensor detects water leaks and floods across a wide floor area and senses along the full length of the rope. The rope flood sensor is ideal to monitor a utility room and capture the washing machine, hot water heater and slop sink with one device. Sensor can be wrapped around pipes to identify pin-hole leaks and larger commercial applications.



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INTERNET-ENABLED REMOTE SHUT-OFF VALVES

H2O Degree's LoRaWAN Enabled Remote Water Shut-Off Valves Add Even More Value to Your Leak & Flood Detection System!



LoRaWAN™ Wireless

In multi-story buildings, flooding caused by a slow leak from a pipe, or water pooling around an overflowing bathtub, can cause damage in the apartment where the water accumulates in addition to apartments below the leak.

H2O Degree's LS6000 LoRaWAN enabled wireless shut-off valve is designed with sensors hard-wired to the valve and/or it can "talk" with multiple wireless sensors installed throughout an apartment or a building. For flexibility, it comes in a range of pipe sizes from 3/8" up to 3".

Once water is detected by the on-the-floor flood sensors, a signal is sent over the LoRaWAN gateway. An open/close function in the LoRaWAN smart valve can be triggered remotely via a cell phone app (Android or IOS) to shut off the water, or it can be set to close automatically.

The smart valve can be attached on either point-of-entry or dual point-of-entry pipes on hot water heaters, washing machines, risers, irrigation and chillers.

In-Apartment & Common Area Flood Detection

H2O Degree's flood detection system enables flood detection and occupancy sensors to be installed within a specific apartment or common area to monitor items such as toilets, showers, hot water heaters, dishwashers and more. The LS6000 automatic water shut-off valve reads the data provided by the sensors and performs an automatic water valve shut-off when a flood or leak is detected. This prevents both wasted water and helps mitigate water damage to the apartment and common areas.

Property destruction is even more severe for units located below where the water originated. The deluge of water coming through the ceiling can destroy expensive items inside lower level units, such as furniture, decorations and electronic equipment, not to mention the cost and headache of clean up.

Upper Level Risers in Multi-Level Buildings

An effective application for the system is on risers between the upper floors of multi-level buildings. In this application, one smart valve can attach to the riser to "listen" to multiple sensors placed in the units above. For example, one smart valve can be put on a one- or two-inch riser, and multiple water sensors can be installed throughout the 10 apartments above the riser. If the water hose comes detached from a washing machine in one apartment and begins to leak water, the flood sensors around the washer will "tell" the smart valve to shut off the water to all 10 apartments at the same time. The application is cost-effective since one smart valve placed on a riser can react to many different sensors, in many locations.