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Commercial Plumbing System Leak Detection

Monday Morning Minutes | by Norm Hall, April 3, 2023

Often engineers will voice concern about failure of an underground pump and the possibility of water damage. The key to reducing any damage is the quick determination of the leak. Today we will introduce a commercially available system that the engineer can put in the toolbox to solve the client's concern.



Leak Detection Solution Examples

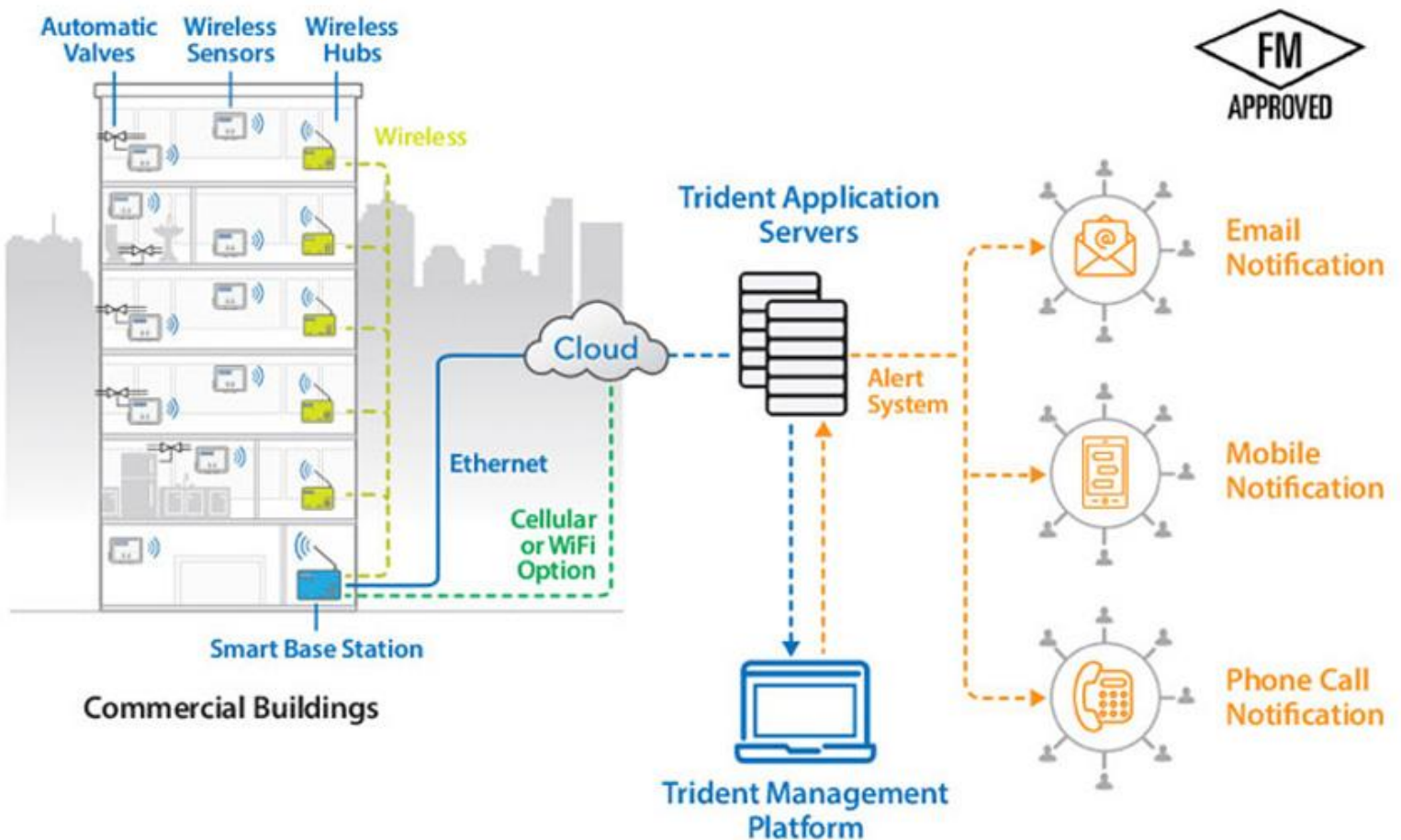
There are many examples where leak detection may be needed. One area is mentioned above. Our [Bell & Gossett sump and sewage pumps](#) are dependable and have a long life when properly installed and operated. They do need power and if there is an interruption to the electrical system, the sewage will rise. After multiple years of service, any pump will fail. When the failure occurs, will the owner know it failed before the sump overflows?

Another example was a recent discussion about a boiler blowdown system. The engineer was concerned because the combination of the boiler blowdown and the cooling water added to the separator resulted in a higher flow rate than the drains could handle. A sump pump system was the solution. What if there was a failure? Water at 120°F flooding the mechanical room floor near the steam boilers.

Of course, there is concern about public restrooms and customers using too much toilet paper. This messy problem affects health and safety but also reflects on the quality of the business. Wouldn't it be great to detect it, shut off the water, and alert the manager?

There are many applications for water leak detection. There are also hundreds of small residential solutions on the internet. What makes a commercial application?

Commercial Leak Detection



What makes a product solution a commercial solution? Quite simply, it must have the quality, pedigrees, and an all-inclusive component that an engineer would put their name behind. Here is a short list of needs.

- The component package is completely provided by a single source for reliability and responsibility.
- The system has a recognized authority's approval.
- The system should be large enough for commercial systems.
- It must have current wireless options.
- It must have continuous monitoring.
- It must have a notification and alert system.
- It must be clear and easy for the engineer to specify.

The Lync by Watts Solution



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The Detection Group



Protect Your Property with Unrivaled Water Leak Detection

Water leaks occur in virtually every building. When they happen, they can cause major damage and be expensive to remediate – on average, they result in \$10 billion in annual insurance claims.

The Detection Group's innovative Trident™ wireless water leak detection system identifies leaks and their locations before they become a flood. When Trident's network of wireless sensors detect a water leak in your building, it

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The Trident detection system from Lync by Watts hits all the needs of a commercial system.

- The parts and pieces are provided as a complete system to match the building size and budget. All parts are provided as a harmonious system engineered to be complete.
- The Trident Wireless Water Leak Detection System meets the FM Approvals Standard 7745, to receive the coveted FM Approvals certification mark for a wireless water leak detection system.
- This system can handle from 1 to 400 sensors. The system can provide from 1 to 100 valve controllers. The system can handle buildings from 1 to 30 stories tall.
- The system available through Lync by Watts operates on Ethernet, Cell (4G LTE), or Wi-Fi
- The sensors are monitored once every 60 seconds with a Lithium rechargeable battery pack.

- The system has a remote management system with assignment of who receives mobile or email alerts. The system can transfer that alarm notification when the primary person is on vacation.
- Watts is a leader in the plumbing industry. R. L. Deppmann partners with the to make sure the engineer gets the information they need in the format required to make specification complete while protecting the engineer's time.

Contact your RLD sales engineer or call our customer service group for more information on COMMERCIAL LEAK DETECTION PROTECTION.