



H2O Degree Simplifies Submetering in 30-Acre Apartment Complex Using Just 1 MachineQ Gateway

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Jessica Phillips

The MachineQ team visited H2O Degree's submetering deployment at a large apartment complex, studying the placement of sensors and the LoRaWAN coverage provided by a singular MachineQ gateway.

MachineQ met with its client, H2O Degree, at one of their deployments in Yardley, PA to see the installed LoRaWAN® network in action as well as the placement of sensors throughout the location. The property is a garden style apartment complex with a Clubhouse and 11 residential buildings with units ranging from 1-3 bedrooms.

H2O provides LoRa®-based submetering, which allows the property owner/operator to be able to charge tenants for actual water use. Without it, a property manager either absorbs the entire water bill or must allocate costs based on bedroom count, not actual to tenants. With the installation of H2O's pulse counter, a landlord can easily and accurately measure water billing per unit.

H2O Degree

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Don Millstein, H2O Degree President, shows the MachineQ team the LoRa 2-Channel Pulse Counter.



The MachineQ 8-channel indoor gateway is housed in an H2O Degree case within a utility closet in the apartment complex's centralized leasing office.

H2O is installing meters and pulse counters in phases across the property. The MachineQ team is always impressed to see their networks in use and the range it covers. H2O installed one MachineQ indoor gateway inside an IT closet in the property's Main Clubhouse, located centrally on the property. A 3-foot external antenna was added, also located in the closet, to improve range. This gateway configuration covered the 30-acre property with strong signal, and it could likely cover a property over double its size.

H2O Degree's business consists of 40% new construction where they provide a new meter and a two channel LoRaWAN pulse counter. The other 60% of the business is comprised of retrofits. In the retrofit scenario, the main driver, 95% of the time, is for building owners to bill tenants accurately and directly. Billing drives the sale for most landlords; leak detection is a nice extra. H2O sells on a compelling ROI – the payback is often under 18 months!

We were excited to find out that H2O is developing a remote water shutoff valve using LoRaWAN and the MachineQ network. This will provide additional applications in various commercial buildings. It's always beneficial to see our network and management platform in action at a long-standing, successful deployment. H2O has been a great MachineQ partner with an exciting LoRaWAN roadmap ahead. We are excited to continue to support their growth in buildings across the US.

For information on H2O Degree's Utility Submetering, Leak Detection & Thermostat Control solutions visit www.H2ODegree.com or call (215) 788-8485.

For information on MachineQ Smart Submetering Solutions visit www.MachineQ.com.

Increase Building Efficiency with Smart Submetering Solutions

Smart technology is no longer a promise, it is an expectation. Find out how MachineQ and H2O Degree can help you increase building efficiency and lower utility costs with smart, LoRaWAN-based submetering solutions.

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