FILED FOR PATENT PENDING INTERNATIONAL PATENT

Watts Connected Roof System

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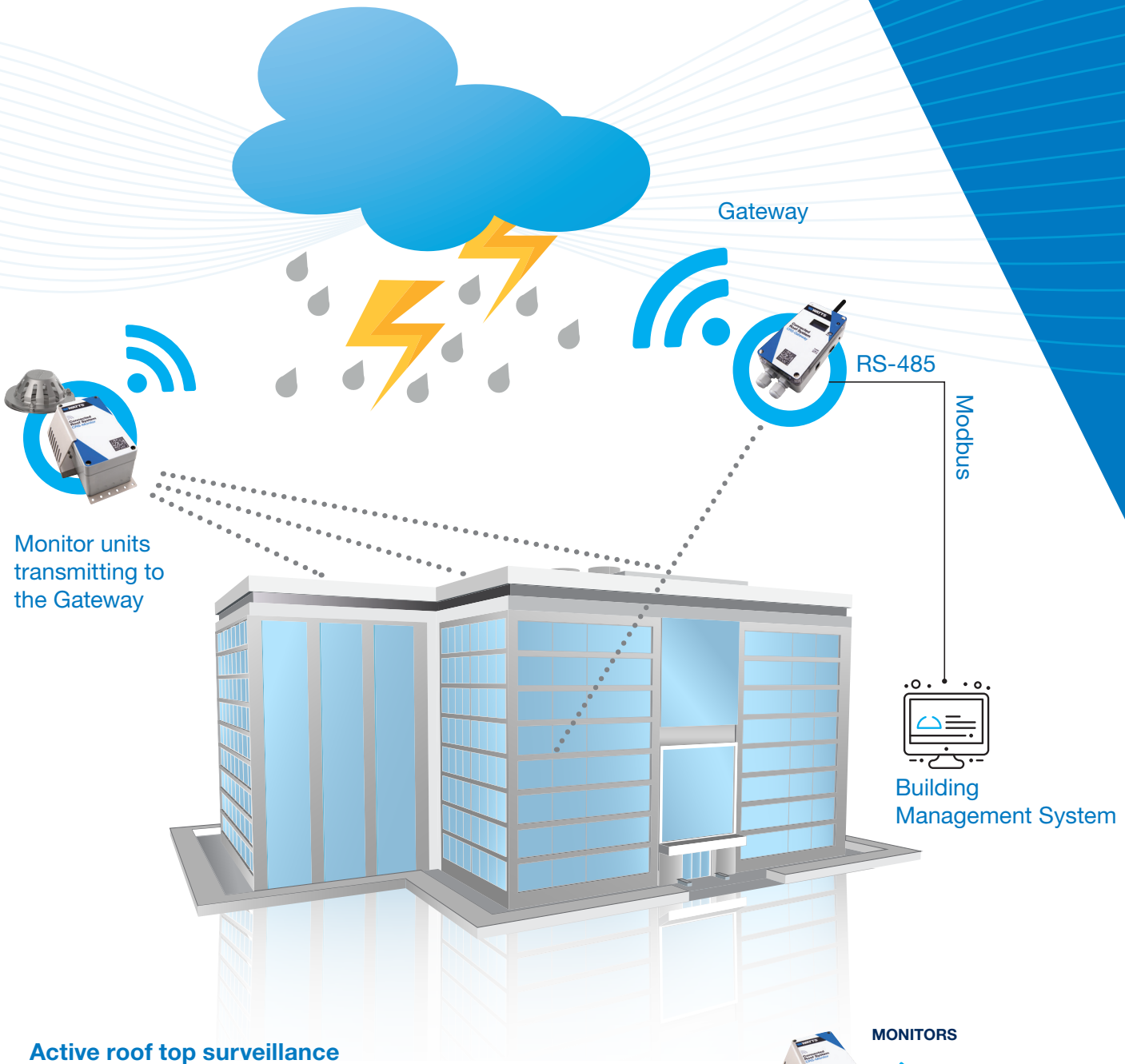
Are You Inspecting Your Roof Drains?

With wireless monitoring, keep an eye on your flat roof with Watts smart and connected technology and get instant notifications if your roof drains are clogged

You can have serious problems if standing water on your flat roof penetrates through the roof structure and into your production area, warehouse, or data center. With Watts Connected Roof System you will have peace of mind that your roof is monitored 24 hours a day and you will receive alerts if your roof drains are clogged. Roof drains can be blocked by leaves, dirt, building materials, etc. and experience shows that people rarely enter the large flat rooftops due to lack of accessibility or safety precautions. As a result, the water level on the roof can rise and before you notice it that can cause sever damages. The Connected Roof System consists of Gateway and Monitor units. The Monitor is mounted next to any roof drain and collects water level and temperature data. The Monitor sends wireless signals to the Gateway which functions as a master unit to the Monitors. One Gateway can receive data from up to 16 Monitors. When rainwater does not drain properly, and the water is collected in confined spaces on the rooftop the Gateway unit will place a warning on its display and will also communicate with your Building Management System (BMS) to generate SMS or email alerts.

- **Safeguard your entire operation with a small investment**
- **Wireless monitoring with quick installation**
- **Easy and speedy access to information**
- **Reduce maintenance and labor costs**
- **915 MHz wireless range of 1500 meters**
- **Level and temperature measurement**
- **Relay output for alarming and process control**
- **Up to 10 years of battery lifetime**
- **Modbus connection to Building Management System**



Active roof top surveillance

The Connected Roof System can generate warnings before clogged drains on the roof can cause severe water damages, ruin stocked inventory, and ultimately halt production. The Monitor units are placed near the main drains on the roof. They measure water level and temperature. The data is wirelessly transmitted to the Gateway unit placed inside the building. The Gateway compares the water level between the drains on the roof. If the level becomes critical at any of the drains an alarm will be issued by the Gateway.

Alarms are communicated in two ways; 1. Through a display on the Gateway and can be noted if an audible alarm is connected to the Gateway's relay. 2. If the Gateway is connected to the Building Management System (BMS), email alerts can be generated by the BMS.

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