

# Product Overview

## WIRELESS MONITORING for Emergency Safety Showers Optional Fittings

In the event of an emergency safety shower activation, it is critical to alert co-workers who can provide assistance and contact emergency services. Alarms and beacons alert to an activation locally but on remote or large sites this can be costly and problematic due to distances or complexities associated with the environment.

Hughes have teamed up with Emerson to provide our customers with another way to help keep their workers safe, enhance operations and reduce energy use. Wirelessly linking remote locations ensures that in the event of an emergency shower being activated on-site responders are alerted instantly.



### Why Choose a Wireless Monitoring Solution?

- Improve first responder awareness
- Improve environmental, health and safety incident reporting capabilities
- Suitable for use in hazardous locations (ATEX Zone 1 and 2)
- Reduce cost of installation and maintenance - no need for field wiring, I/Os, safety barriers or monitoring for line breakage and short circuits
- Reduce the necessity for manual inspection - self-organising network delivers information rich data with >99% data reliability
- Provide activation notification, time stamping and trending capability
- No wireless expertise required - the self-organising, self-healing WirelessHART® network automatically finds the best communication paths even in the event of an obstruction

*Remote locations, physical obstructions, and the high cost of engineering and integrating new technologies are no longer the barriers they were.*

### How Does it Work?

Each transmitter has two input channels meaning it can monitor both an emergency safety shower and an eye wash in a single station.

The wireless transmitter connects via a switch on the valve of the Hughes emergency safety shower and/or eye wash. When the valve opens upon activation a signal is sent to the gateway over the WirelessHART network. The gateway then transmits a signal directly to the control host or alert system in real-time ensuring the earliest possible response.

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### WIRELESS MONITORING

#### Optional Fittings



#### Wireless Transmitter

A cost-effective and installation-ready device providing two inputs. With the security and reliability of WirelessHART technology, this transmitter offers access to remote points not connected to the control system due to wiring costs and lack of I/O. Commonly used as a repeater, this device also provides personnel access awareness and is ideal for monitoring safety showers and eye wash stations.

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#### Wireless Level Detector

Ideal for hard to reach locations, the wireless level detector is suitable for low level alarms on remote tanks and emergency tank showers. With remote access to process data and enhanced diagnostics for predictive maintenance, visual inspections are a thing of the past. The detector is designed for energy efficiency and uses a high quality battery to increase lifespan. With a 1 minute update rate, the battery can last up to 10 years. Depending upon requirements, the refresh rate can be increased or decreased providing improved site safety and reliable measurement.

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#### Wireless Gateway

Specifically engineered to meet smaller network requirements of remote operations, while also maintaining exceptional security and flexibility. This compact wireless gateway connects WirelessHART networks with host systems and data applications. Its small size and DIN-Rail mount capability make it an ideal solution for limited cabinet space. This device offers 2 network capacity options (A: 25 devices / B: 100 devices) to meet various network demands.

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#### SmartPower™ Module

With up to 10-year, maintenance-free operation, the SmartPower Module provides replacement without transmitter removal allowing you to quickly change power modules in the field. As an intrinsically safe solution, the power module is engineered with a robust and adaptable design that withstands harsh environments and allows you to choose the best mode of power for your application.

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