



Overview

Avoid regulatory compliance issues by remotely monitoring the state of tank hatches, gates, valves, and other mechanisms. The Unico® UWS™ Hatch Sense wireless sensor is designed to monitor these devices and more. For example, when tank hatches are left open toxic and deadly gases may be released into the atmosphere. These gases pose a threat to anyone in the vicinity of the tank and are harmful to the environment.



The Hatch Sense sensor contains a magnetic proximity switch that detects if the latch on the hatch is open or closed. It uses Bluetooth Low Energy (BLE) technology to communicate with a mobile device or a Unico® UWS™ Gateway. The device is rated for hazardous indoor and outdoor environments.

Features Easy, Low Cost Installation

No tools are required to install the Hatch Sense sensor. The sensor may be attached to the cover of the tank hatch using the Velcro kit supplied and the magnet is epoxied to the latch on the hatch cover. Wireless provides for a low cost, quick installation. Alternately, the unit may be secured using the mounting holes provided in the enclosure.



Rapid Setup

The sensor is quickly detected and paired with a Unico® UWS™ Gateway using either an iPad or an iPhone by running the Unico® Connected mobile application. The gateway allows one or more UWS™ devices to be linked to a customer's SCADA system and/or a Unico® GMC® System for monitoring and logging.

On Site Verification

Proper operation may be checked by observing the status of an LED on the sensor itself. It can also be monitored using an iPad or iPhone running the Unico® Connected iOS App. The LEDs are only on

when the sensor is connected to the iOS device to conserve battery life.

Advanced Monitoring

The UWS™ Gateway incorporates a clock/calendar that allows the unit to time and date stamp open and close events. A watch battery maintains the date and time when the power to the gateway is off.



®

UWS™
Gateway

Unico®
UWS™
Hatch
Sense

UWS™ Gateway

Tank Hatch Monitoring System



Specifications UWS™ Hatch Sense

- Battery: AAA Lithium Ion Battery (Energizer Ultimate)
- Battery Life: approx. 2 years
- Temperature Range: -40° to 60° C (-40° to 140° F)
- Bluetooth Range: 300 meters (1000')
- Polycarbonate Enclosure: 2-1/2" x 2-1/2" Wide x 1-1/2" High
- LED Indicators for hatch status.

UWS™ Gateway

- Input Voltage: 24 VDC +/-10% (2-Wire)
- Input Current: 150 mA
- Calendar Battery: Panasonic or Energizer CR1632
- Battery Life: 10 years typical
- Polycarbonate Enclosure: 7-3/4" High x 6" Wide x 3" Deep
- SCADA Protocol: Modbus RTU
- Serial Connection: RS422/485 (2-wire or 4-wire)

Certifications

- UL designated, intrinsically safe, rated for Class 1/Div. 1 locations
- BLE Devices, FCC ID: Q0Q BLE121LR and IC: 5213A-BGTBLE121LR

Part Numbers

Number	Description
328-333	UWS™ Hatch Sense Kit
328-052	UWS™ Hatch Sensor
715-452	UWS™ Gateway

Additional Information

For more information, check out the Unico® Connected App and the Unico® GMC® Global Monitoring and Control System.

Contact

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