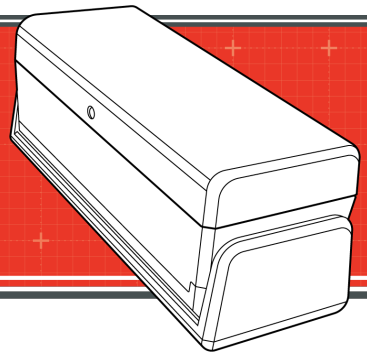
D6 Labs™
Engineered IoT Solutions

SS1-1-900-U

Universal Soap Dispenser Sensor



General Description

The Universal Soap Dispenser Sensor is an IOT enabled device that is mounted adjacent to any hand soap dispenser and counts the number of times soap is dispensed by sensing the presence of hands moving to and away from the soap dispenser.

The dispenser communicates to the cloud platform through our SmartHub family of cloud connected IOT hubs. It periodically communicates a message to the SmartHub indicating the battery voltage and the count of dispenses since it first began operation. This information can be used as a means of determining how much product has been dispensed since the last refill or to determine use frequency and time of day patterns to ensure hand wash policy compliance.

The long range, exceptional battery life and reliability make it the perfect choice for organizations looking for insight into the hygiene practices.

Power

The Universal Soap Dispenser is powered internally using a 3.7V, 5.2A-H LiThCl battery pack that should give 10+ years of service life before a battery change is required, assuming a 5 minute average dispense period.

Internal Channels

This device is configured with two (2) internal channels:

Battery Voltage

Dispenser Count

Mounting

The Universal Soap Dispenser is mounted next to the device such that the infra-red sensor is pointed toward the area where a hand would be placed to acquire soap. The device should be mounted between 3 to 15 centimeters from the soap dispensing area. Note: the Universal Hand Dispenser must be mounted within range of a Smart.Hub for it's reading to be passed through the Cloud platform, and viewed in the Whisker Web Portal.

Electrical Specifications

Parameter	Minimum	Typical	Maximum	Units
Battery Life—Standard Pack		10	20	Years
Operating Temp. Range	-4°C		+85°C	Degrees Celsius
Transmission Range		0.8 – 1.6		kilometers[1]
Frequency Range	902		928	MHz
Sensor Sample Rate		5		Minutes

1) Outdoors, line of sight, unobstructed, antenna elevation 10 feet

Order Information

Part Number	Description
SS1-1-900-U	Universal Soap Dispenser Sensor , 900MHz, battery powered, int. antenna

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