



**AUTOMATION  
GROUP**

## HIGH LEVEL SWITCH TRANSMITTER - TOP MOUNT SM5010-HLS



### PRODUCT HIGHLIGHTS

- High Performance WIO® Wireless Connectivity
- Designed Specifically for Industrial High Level Sensing Applications
- Complies 100% to EPA Spill Prevention Control Countermeasure (SPCC) Mandate
- Ideal for Monitoring Levels of Refined Fuels, Crude Oil Products, Chemical, Acids, Caustics, Lubricants, Detergents, and More
- Immediately Transmits Wireless Alarm When a Set Point Level is Reached
- Top/Vertical Mount Type / Submersible Design
- Up to 2 Actuations Points (2 Floats)
- Available with Switch Length of Up to 1.83m / Custom Lengths Also Available
- License-Free 900 MHz Band, Secure Data Transmission (2.4 GHz Optional)
- Intrinsically Safe for Use in Hazardous Locations
- Self-Contained Battery Operation
- Easy-to-Insert, Install and Use
- Connects to WIO Wireless Gateways
- User-Friendly BreeZ® Configuration Software

Designed for Industrial High Level Detection

Ideal for Oil, Chemicals, Acids Caustics & More

Cost-Effective Solution for Spill Prevention

Immediately Transmits Alarm at Set Point

Up to 2 Actuation Points

915-928 MHz ISM License-Free Band

Self-Contained Battery Operation

Up to 10-year Battery Life

Class I; Division 1

### WIRELESS SENSOR NETWORK

- Reliable, Robust Wireless Performance
- Eliminates Costly Conduits and Wiring
- Monitor/Control Process Conditions 24/7
- License-Free ISM Band, FSK & FHSS Technologies
- Reduces Labour, Installation and Maintenance Costs
- Meet Regulatory Requirements
- Industrial Strength Performance & Durability

### APPLICATIONS

- Oil & Gas, Pipeline, Petro-Chem, Water/Wastewater, Utilities, Irrigation Systems, SCADA Systems, 3A Sanitary, Pharmaceuticals, Biotechnology, and Much More



**INDUSTRIAL WIRELESS AUTOMATION**

# TECHNICAL SPECIFICATIONS

## HARDWARE FEATURES

Device Functionality	High Level Discrete Sensor with Built-In Wireless Transmitter (Side Mount Type)
Embedded Controller	Ultra-low Power RISC Microcontroller with Internal FLASH (Field Upgradable)
I/O Interface	Up to 2 Actuation Points
User Interface	Standard RS232 Serial
Power Source	Self-Contained, Internal 3.6 V Lithium Battery
Internal Battery Life	Up to 10 Years, Based on Usage
Self-Diagnostics	Contains Comprehensive Self-Checking Software and Hardware for Continuous Monitoring of Operation

## WIRELESS COMMUNICATIONS

Type: 900MHz	ISM Band, FSK (Frequency-Shift Keying), FHSS (Frequency Hopping Spread Spectrum)
Frequency	915 MHz to 928 MHz
Data Rate	115.2 kbps / 9600 bps
Output Power	1 mW to 10 mW
Receiving Sensitivity	-100 dBm @ 115.2 bps or -110 dBm @ 9600 bps
Range	Up to 2.3km with Clear Line of Sight
Type: 2.4GHz	Optional Version Available, ISM Band, DSSS

## CERTIFICATIONS

FCC	FCC Part 15
Australia	C-Tick
Industry Canada	(IC) ICES-003
Safety	Intrinsically Safe for Use in Hazardous Environments Class I; Division 1, Group A, B, C & D T3C Class I; Zone 0 Ex ia IIC T3 / Class I; Zone 0, AEx ia IIC T3

## MECHANICAL SPECIFICATIONS

Transmitter Dimensions	127 mm (W) x 356 mm (H) x 108 mm (D)
Mounting Hardware	Direct Mount
Hardware Connection	25.4mm NPT Male (Pipe Plug)
Enclosure Casing Material	Type 4X Aluminum; IP66
Switch Material	Stainless Steel 316
Switch Length	30.5cm to 183cm in 2.54cm Increments / Custom Lengths Also Available
Switch Gravity	0.60

## GENERAL SPECIFICATIONS

Operating Conditions	Ambient Temperature (Class I; Division 1): -40°C to 70°C Ambient Temperature (Non-Hazardous Applications): -40°C to 85°C
Humidity:	0 to 99%, Non-Condensing
Warranty	2-Year Parts and Labour

## ORDERING INFORMATION

This Device is	High Level Switch Transmitter - Top Mount SM5010-HLT
Wirelessly Connects to	WIO® Gateways: Base Unit or DH2

**HLT**

**##**

**##.##**

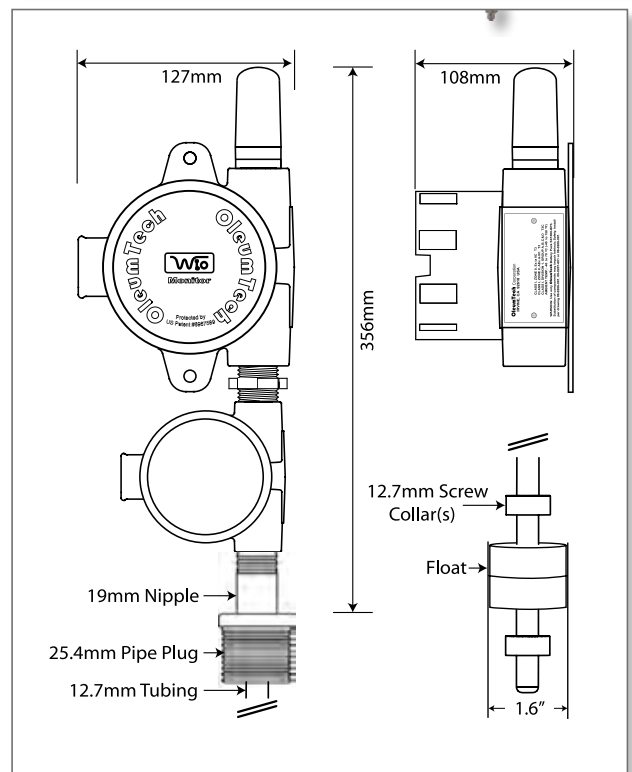
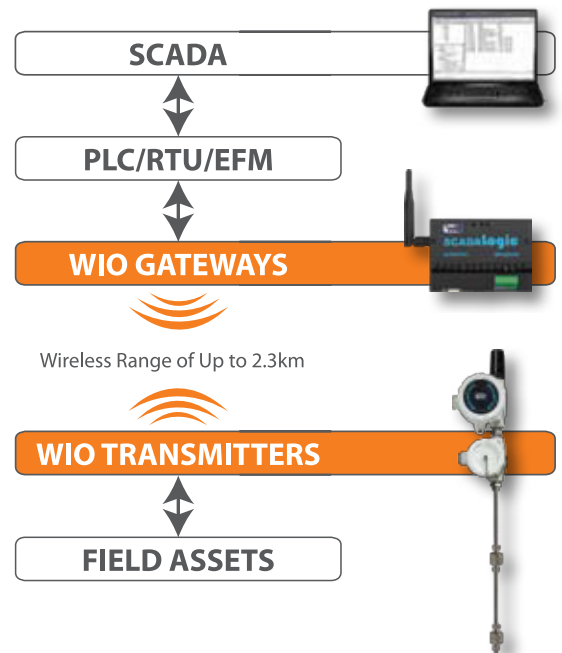
"T" Indicates Top/Vertical Mount Type

IL - Length in MM from Top of Tank to Bottom of Probe

L1 - Length in MM from Top of Tank to Middle of Probe



## BASIC NETWORKING DIAGRAM



## Automation Group

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