



# Ultrasonic Level Monitoring System

# ADS ForeSITE™ UL

## For Storm, Surface Water, and Environmental Water Applications

The ForeSITE™ UL (FS-UL) system is designed to enable cost-effective, easy-to-setup and reliable monitoring of water levels for a wide variety of applications and locations.

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|---|---|
| **Stormwater** | Vaults |
| | Outfalls |
| **Surface/Environmental Water** | Lakes & reservoirs |
| | Lagoons |
| | Rivers & streams |
| | Canals & channels |
| | Tidal gates and structures |
| **Flood Control** | Streets |
| | Underpasses |
| | Parks |
| | Other flood-prone structures and locations |
| **Irrigation** | Canals & channels |
| | Flow control structures |

FS-UL mounted over a stormwater vault

FS-UL mounted over an open-channel

The system is designed for direct mounting above the water surface. This non-contact monitoring system provides measurements at user-prescribed intervals with ±0.04 inches (±1 mm) accuracy. Data is stored in non-volatile flash memory and wirelessly communicated.

The cellular option provides support for CAT-M1 and NB-IoT Networks. Host compatibility is ensured with integrated support for DNP3.0 and FTP data protocols. Depending on communication and measurement intervals, battery life can exceed 5-years.

The monitoring system includes a fully integrated and stabilized ultrasonic sensor, exceptionally long-life battery, high performance antenna, start-up software for fast, easy configuration and setup, cloud-based software for ongoing data capture and graphical visualization, mounting bracket, and installation accessories.

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## *FS-UL Level Monitor Specifications*


### System Components

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| FS-UL data logger with modem, internal battery pack |
| External antenna |
| Mounting bracket |
| SIM Card |
| Start-up software |
| Data storage and analytics software |

Wideband external antenna

FS-UL and mounting bracket

### System Specifications

| | |
|---|---|
| Sensor | 1x Integrated ultrasonic level sensor, +/- 0.04 in. (+/- 1 mm) resolution |
| Measurement range | 12 in. to 196 in. (300 mm to 4999 mm) |
| Alarms | 4x user-configurable alarm limits on Ultrasonic level Input |
| Memory | 2,000 events stored in non-volatile, flash memory |
| Communications | 4G/LTE CAT-M1/NB-IoT |
| Logging | Configurable, time-stamped, 1-second to 1-day regimes |
| Antenna | Internal and external (via SMA connector) |
| Power | High capacity, 3.5-8.5 VDC |
| Humidity | 0 to 90% relative humidity, non-condensing |
| Dimensions | Cylinder: 3.5 in. H x 4.9 in. D (90 mm H x 125 mm D) |
| Submersion | IP68 |
| Temperature | –20° to +65° C Celsius (-4° to 149° F Fahrenheit) |
| System Status | Cell Network RSSI, RTU temperature, RTU battery voltage |

**Learn more about ADS ForeSITE**
www.adsenv.com/contact-form/

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Specifications subject to change without notice.

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