# Level Monitoring System

ADS

ECHO

# Level Monitoring for Open Channel Flows

The ADS<sup>®</sup> **ECHO**<sup>™</sup> is an all-new generation level monitor. It gives users up to 10X more monitoring range and uses machine learning software to predict overflows long before they occur.

Coupled with its wide range of uses and low cost, **ECHO** is the leading solution for level monitoring applications.

# **Collection Systems, Plants, Surface, and Storm Water Structures**





# The Wide Range of ECHO Applications Gives You Flexibility

Operations, Engineering, Planning, Modeling, and Contractor Professionals

### **Efficient Cleaning Process**



Reduce cleaning frequency and mitigate Sanitary Sewer Overflows (SSOs) with continuous monitoring and blockage prediction software.

### **CSO Data and Reporting**



Monitor Combined Sewer Overflows (CSO) activation and de-activation in real-time. Calculate overflows, prepare reports.

### Hydraulic Model Validation



Acquire data for updating and validating hydraulic models. Low cost means higher sensor density.

### **Bypass Monitoring**



Secure 24/7 protection from overflows with bypass monitoring.

### Wastewater Pump Station Back-up



Avoid pump station overflows from power failures, partial pump blockages, or failed alarms with **ECHO** back-up.

### **SSO Mitigation**



**ECHO** is the latest generation level monitor. This means you get:

- Predictive, early-stage notices of developing blockages
- Precise, long range ultrasonic measurements
- Multiple high and low flow alarms
- Fast, easy installation
- Stabilized mounting with integral sensor that avoids false alarms



# **Continuous Monitoring Drives Informed Actions**

Real-time depth data is collected and communicated to the cloud-based **PRISM** software and analytics. With continuous user access, informed actions are enabled.



# **PR†Software Enhances Understanding**

**PRISM** is a cloud-based, secure software system that acquires, stores and presents data with ongoing user access. Its home page (right) provides a map view and a dashboard for quick access to essential parameters. Individual site details, hydrographs and remote site system settings are all accessible. **PRISM** APIs enable third party data exchange.

**PRISM**'s **blockage PREDICT**<sup>™</sup> app (below) uses machine learning and will predictively detect blockages, with days' or weeks' worth of warning. When detected, blockages are presented in the dashboard.







# The ECHO Difference Means New Standards in Performance:

### **New LTE-M communications**

LTE-M communications provide improved reliability often allowing the antenna to be installed in the manhole, eliminating drilling. Set-up is fast and easy, taking just minutes.

### **Total manhole visibility**

**ECHO**'s unique narrow beam technology provides up to a 20 ft (6.1 m) range and its pressure sensor can read up to 8 ft (2.4 m) above the **ECHO**.



### SPECIFICATIONS

System	Dual-measurement sensor (ultrasonic and pressure), tilt alarm for sensor alignment, battery powered, wireless communication
Software	<b>PRISM</b> , cloud-based with data storage, dashboard, analytics, and reports
Communications	Third-party, FCC/IC/EC- and carrier-approved wireless modem
	Compatible with all 4G LTE-M networks worldwide with 2G fallback
	Automatically detects installed SIM upon boot up to determine correct network
	Modem FCCID: R17ME910C1WW
Battery Life	Up to 2 years depending on operating temperature, modem power management, and frequency/type of communications
Submersible	Meets IP68
Manufacturing Standard	ISO-9001
Intrinsically Safe	CSA, ATEX, and IECEx certifications
	Multiple intrinsic safety certifications set the ADS <b>ECHO</b> apart with an intense focus on safety

### **ECHO System Components:**





 "Bullseye" level located on top assures alignment in seconds

### **Installation Options:**

The ADS **ECHO** installs quickly making it easy to move from one location to another.



ECHO with tension bar installation





Adjustable tension bar

### Tailored, Affordable Purchase Programs

#### Purchase

The ADS **ECHO** can be purchased bundled with communications and software.

### **D-Site Turn-Key Service**

ADS takes care of your monitoring network including equipment, software, and onsite maintenance through one low monthly fee.



### 2 Year Warranty

Our two-year warranty gives you added assurance of its quality and reliability.



Call: 800.633.7246 Email: adssales@idexcorp.com



Learn more about ECHO: www.adsenv.com/echo



Specifications subject to change without notice.

© 2024 ADS LLC. All Rights Reserved.