

# LIQUA-Level EPC

Innovative Water Level Monitoring System for Stormwater Infrastructure

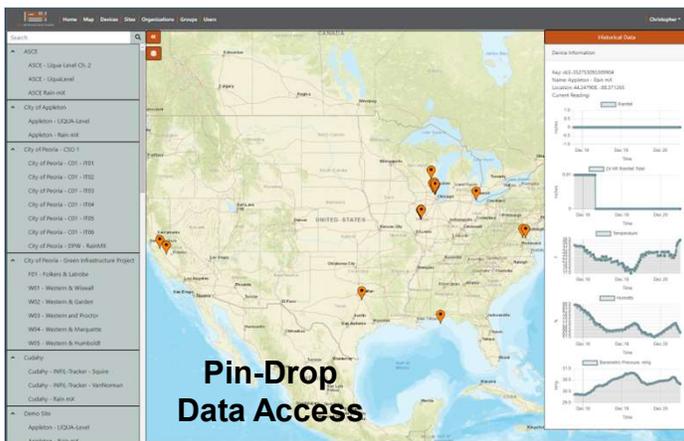


LIQUA-Level EPC is a robust water-level and sediment measurement system for stormwater infrastructure.

Coupling LIQUA-Level EPC with P4's LIQUA-Level and Rain-mX systems creates a stormwater infrastructure monitoring and performance documentation system.

Battery health and (solar) re-charging cycles are documented and displayed.

Wireless data transmission.



## Applications & Value

**Large surface systems**

**0 to 30+ ft range**

**No suspension systems**

**Sediment accumulation**

**Data-driven maintenance**

**Performance documentation**

## Data Sampling & Resolution

**Variable or Fixed (10-min std)**

**0.25" resolution**



Nationwide cellular connectivity (LoRa and WiFi possible)

Water level and sediment measurements:



- Large surface systems
- When HUGE measurement range required
- Infiltration basins
- Sediment accumulation assessment



Browser-based dashboard (viewing and download). Advanced notice of potential problems. Data visualization. Data-driven maintenance notification.



Water-level monitoring system to complement other sensor systems (synchronized data)

# LIQUA-Level EPC – Specifications

## Communication

- Cat-M1 cellular (2G, 3G, 4G LTE compatible)
- Wi-Fi option
- Long Range WAN (LoRa) option

## Power

- Voltage – 12V DC
- Battery – 5,000 mAh NiMH pack (modular)
- No external power required
- Remote battery health monitoring
- Solar re-charging with remote monitoring

## Operating Temperatures & Compliance

- Fahrenheit: -30 °F to 120 °F
- Celsius: -34 °C to 49 °C
- FCC and RoHS

## Installation & Measurement

- During construction installation (post-construction possible)
- Easy removal and replacement of sensor
- 0" to 360" range (0.25" resolution)

## Maintenance

- Modular system (sensors, computer, battery)
- Remote battery health monitoring
- Solar panel cleaning (every 6 months – location dependent)

## User Interface & Data

- Browser-based access & display
- CSV downloading
- Mobile via iOS and Android
- 90% data reliability

How do you measure HUGE volumes of stormwater infiltration? **LIQUA-Level EPC**

