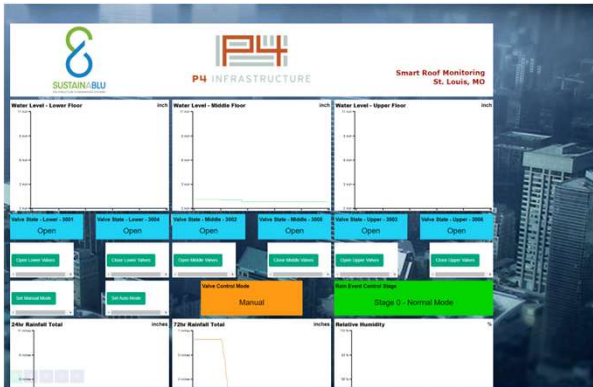


Flow-RTC

Autonomous Flow Control for Stormwater Infrastructure

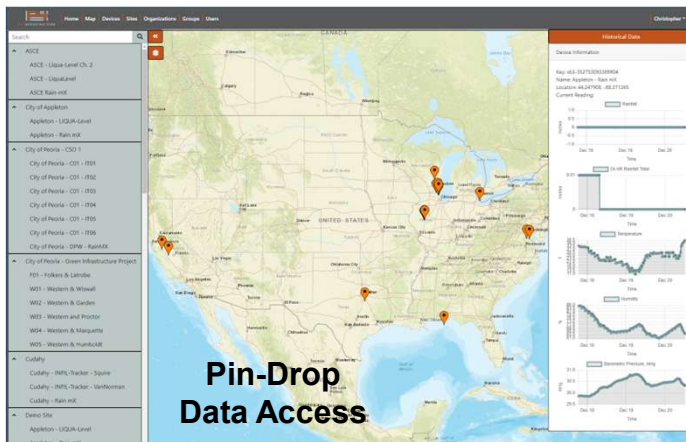


Flow-RTC is a flow-control system for stormwater infrastructure.

Coupling Flow-RTC with P4's LIQUA-Level and Rain-mX systems facilitates documentation of stormwater runoff volume detention and a performance monitoring system.

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

Wireless data transmission.



Applications & Value

Control Discharge

Force Infiltration

Enhance Pollutant Removal

Rooftop Detention

Data

Rooftop detention time

Stormwater infiltrated

Stormwater thru underdrain

Syncing with other sensors



Nationwide cellular connectivity (LoRa and WiFi possible)



Closed/Open Flow Control for:

- Permeable pavement systems
- On-structure detention systems
- Biofiltration systems



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



Valve and control system to compliment other systems (synchronized data)

Flow-RTC - 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

Installation & Measurement

- During or post-construction installation
- Easy removal and replacement
- 2", 4", and 6" valve options
- User-defined open/close cycles

Maintenance

- Modular (plug-and-play) system
- Remote battery health monitoring
- Solar panel cleaning (every 6 months - location dependent)
- Manual valve opening/closing possible

Operating Temperatures & Compliance User Interface & Data

- Fahrenheit: -30 °F to 120 °F
- Celsius: -34 °C to 49 °C
- FCC and RoHS
- Browser-based access, display and control
- JPG and CSV downloading
- Mobile via iOS and Android
- 90%+ data reliability

What volume of runoff was detained?

How long was the detention?

How long did it take to empty?

Flow-RTC

