Rain-mX

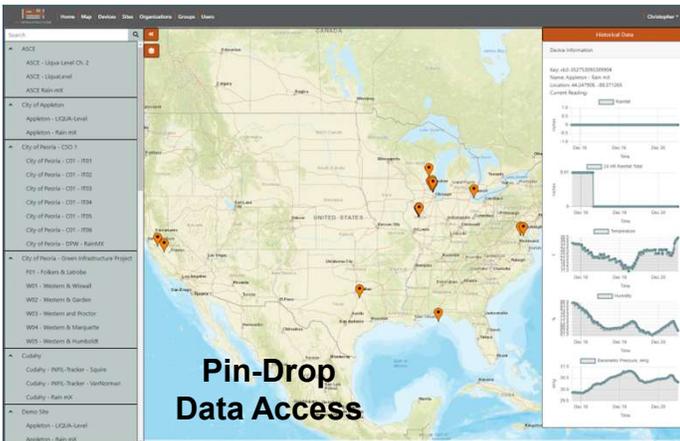## Environmental Condition Monitoring (including rainfall)

Rain-mX is a stand-alone system that monitors and documents site-specific environmental information.

Battery health and solar-charging cycles are documented and displayed.

Rain-mX includes a variety of mounting options.

Wireless data transmission.

Pin-Drop Data Access

Rainfall Data Aggregation

10-min.

12-Hr

24-Hr

7-day

Data Sampling & Resolution

10-min. (std)

Rainfall – 0.01" accuracy

Nationwide cellular connectivity (WiFi possible – contact P4)

Environmental conditions:
- rainfall
- relative humidity
- barometric pressure
- temperature

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

Environmental condition monitoring to complement other sensor systems (curated data stream)

Rain-mX – Specifications

Communication

- Cat-M1 cellular (4G LTE, 5G)
- Wi-Fi option available (contact P4)

Power

- Voltage – 3.3V DC
- Battery – 7,500 mAh NiMH pack
- Stand alone (120V power option)
- Battery health – remote monitoring
- Solar re-charging – remote monitoring

Operating Temperatures & Compliance

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

Mounting & Dimensions

- Standard pole mount with base
- Existing poles or existing walls
- Nearly limitless options – contact P4

Maintenance (owner performed)

- Modular system (sensors, computer, battery)
- Remote battery health monitoring
- Tipping bucket inspection and cleaning (every 6 months – location dependent)
- Solar panel cleaning (data driven)

User Interface & Data

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

Contiguous Data Stream – 5-minute sampling shown

Winter Rainy Season (central California)

Rain-mX system mounted easily to existing light pole at site.

P4 LIQUA-Level EPC shown mounted to pole as well.