

# Galaxy RF in-line Smart Water Metering

## Secure solution with low operational costs

Citycare Water, in partnership with Techlight, provides an end-to-end smart water metering solution utilising communication via a secure 450 MHz Galaxy Radio Frequency (RF) network. With both new smart water meters and devices that add the same functionality to existing water meters, we have solutions for every water network. Hourly water usage data is transmitted through Citycare Water middleware to your choice of either a Citycare Water or other monitoring dashboard, with alert notifications.

### Why install smart water meters?

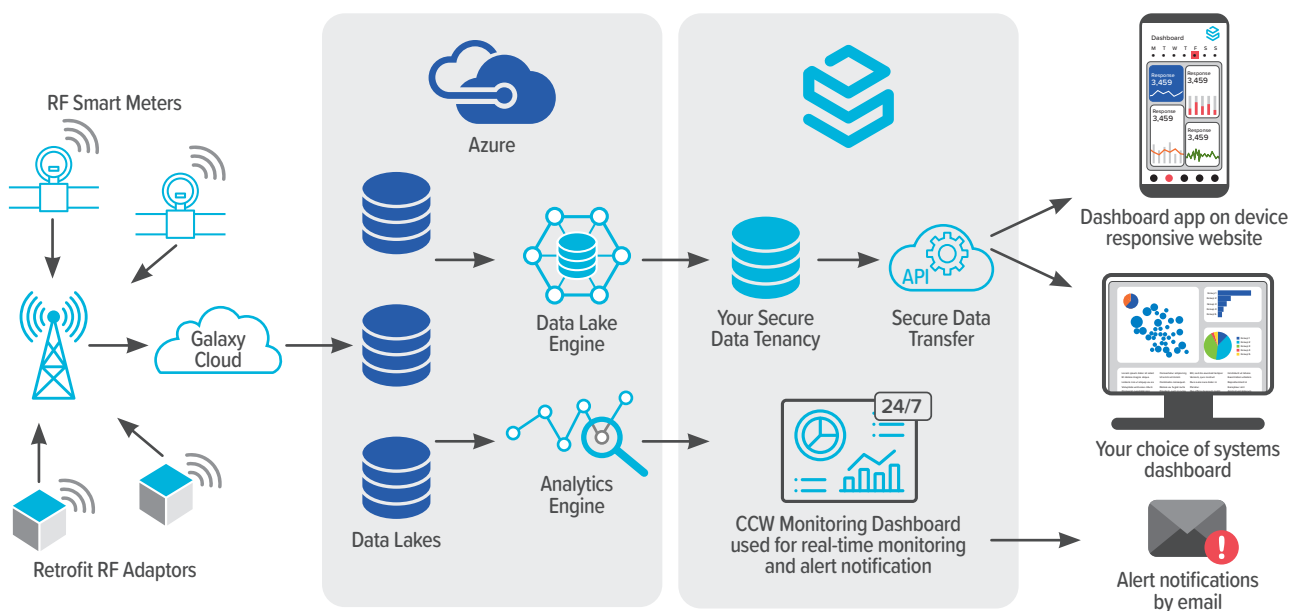
Smart water metering offers significant benefits for water providers and consumers, including:

- **Leak detection** - reducing water waste and preventing potential damage.
- **Water management** - data to manage water resources more effectively, plan for future demand, and implement conservation initiatives.
- **Accurate billing** - using accurate and timely water usage data.
- **Automated readings** - eliminating the need for manual meter readings.
- **Water conservation** - informed consumers can reduce water consumption.

### Why use Galaxy RF?

- **Low per meter per month costs** - lowering lifetime operational cost.
- **Superior signal strength** - between Galaxy RF base station and in-ground meter boxes and difficult sites.
- **Long battery life** - due to low power consumption.
- **Secure data transmission** - from dedicated network.

## Galaxy RF in-line Smart Water Metering as-a-Service



# ARAD Smart Water Meters

Advanced, highly accurate ultrasonic meters from ARAD feature no moving parts, measurement precision and long battery life.

Their secure radio frequency communication capability is a unique point of difference from other solutions.

- Ultrasonic meter technology suitable for residential (Sonata) and commercial (Octave) use.
- Multiple settable alarms: leakage, tamper, dry chamber/empty pipe, low battery, burst, freeze, reverse flow.
- Maintenance-free devices for up to 15 years of operation.
- **Up to 15-years battery life.**



## ARAD Sonata

- For residential & small business.
- Polymer (15–25 mm).
- Integrated Galaxy Radio.
- 15-year full warranty.



## ARAD Octave

- For commercial & industrial.
- Polymer (40–50 mm), stainless steel (40–150 mm) & cast iron (50–300 mm).
- 10-year full warranty.



# Retrofit For Existing Water Meters

Get smart water metering functionality by connecting installed water meters to the Galaxy RF network using a BrightCity Sienna Galaxy Meter Interface Unit (MIU).

Mechanical water meters also require a pulse adapter. These are available for many common mechanical meters, including:

- Honeywell/Kent/Elster V100, V210, C4000, H4000.
- Sensus 620, Mei Twin.
- Itron Aquadis+, Flostar.

The integrated pulse adapter-MIU BrightCity Sienna CX1 is available for some meters.

BrightCity Sienna NB-IoT variants are also available.



## BrightCity Sienna MX1

- Data logging up to 30 days at 15-minute intervals
- Galaxy RF transmission
- Secure communication
- 15+ year battery lifetime



## BrightCity Sienna CX1

- As Galaxy MIU
- Integrated pulse adapter-MIU BrightCity Sienna CX1 - no need for a separate pulse adapter

