

utiliMeter

A Utility Systems Innovation



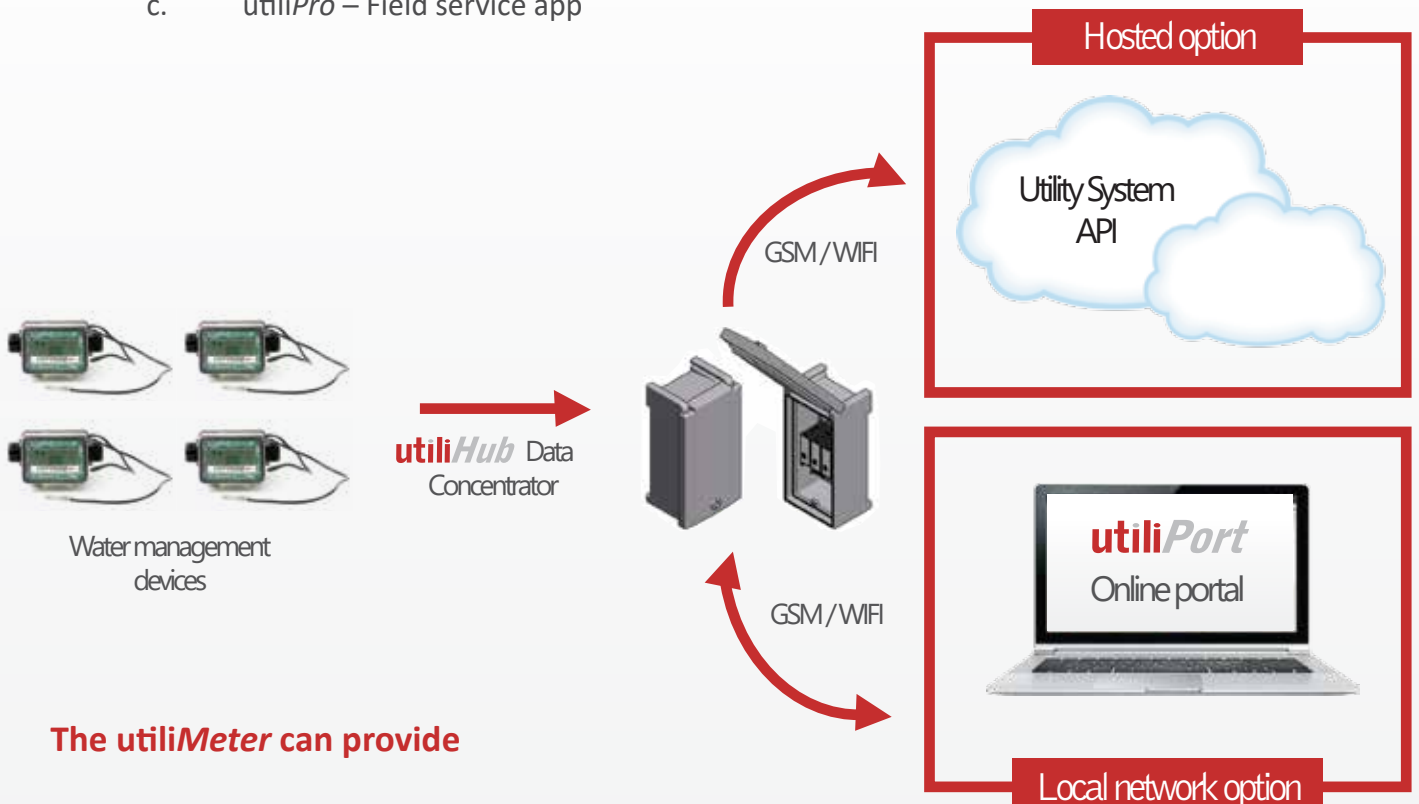
SMART WATER METERING DEVICE

The Utility Systems utiliMeter is an Advanced Metering Infrastructure (AMI) enabled device which offers bi-directional communication in near real time. This allows remote control, configuration and management of any utiliMeter on a fixed network, located anywhere, via the cloud or over a local private network (APN).

LEADERS IN SMART
WATER MANAGEMENT

This smart water management solution comprises of several components:

- 1) *utiliMeter* – Smart water management device
- 2) *utiliHub* – A data concentrator
- 3) Application Programming Interface (API) – A cloud based backend system for managing communication to and from the *utiliHub*
- 4) A datastore for storing, analysing and communicating data
- 5) *utiliPort* - A web interface for administering the backend system and data store
- 6) Applications:
 - a. *utiliApp* – Consumer app
 - b. *utiliRead* – Mobile data collector app
 - c. *utiliPro* – Field service app



The *utiliMeter* can provide

- » Free basic water
- » STS prepaid water metering
- » Advanced Metering Infrastructure
- » Emergency and lifeline water
- » Leak and tamper detection

Benefits to the service provider

- » Radio Frequency: either 433 or 868 MHz ISM band
- » User-friendly mobile data collector app
- » User-friendly field service app
- » Battery life:
 - » 433 RF: up to 10 years dependant on use - with replaceable battery pack
 - » 868 RF: up to 5 years dependant on use - with replaceable battery pack
- » Mounting can be vertical or horizontal
- » Above or below ground installation
- » IP68 waterproof rating
- » Operating range at ambient temperature from -10°C to 60°C
- » Accurate water balancing across a zone using synchronised meter readings in-field programming, testing, and interrogation

Benefits to the consumer

- » Consumers can budget their daily or monthly consumption
- » Daily or monthly carry-over where service providers allow it
- » Accumulation of unused daily allowance, which encourages responsible water usage
- » User-friendly app

Applications:

utiliApp

Consumer App

- » View meter profile charts and usage data
- » Exception alerting: tamper, low credit, leak, faults and more
- » Load prepaid tokens
- » Remote valve control (on/off)

utiliRead

Data Collector App

- » Load a route map from local CSV file or via the cloud
- » Read meters and record basic usage
- » View which meters have faults and which were not read
- » Navigate to meters via google maps/directions
- » Capture a newly installed meter with geo-tagging
- » iOS and Windows versions to be released in 2017

utiliPro

Field Service App

- » WMD configuration
- » Valve test
- » View profiles
- » View configuration data
- » Administrative functions

This application communicates with the utiliMeter through the following methods:

- » API communication directly to the utiliHub over an APN
- » API communication via the Utility System Cloud
- » USB RF probe
- » Bluetooth wireless technology enabled

utiliMeter

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Significantly reduce the time it takes to get meaningful data such as tamper, leaks and meter readings back to the service provider



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