



WaterMind[®]

C&I Cellular Solution

Itron has expanded its advanced metering infrastructure (AMI) capabilities in North America with a cellular solution for water utilities. The solution enables utilities to easily collect real-time consumption and flow analysis, pressure data and meter data from commercial and industrial (C&I) customers via a public cellular network.

Water utilities supply water to populations from a few thousand to hundreds of thousands of inhabitants. Often, only a small fraction of a utility's customers account for the largest proportion of the total water consumption, making them major contributors to the utility's revenue generation. Many water providers are paying closer attention to these large consumers, made up of large C&I accounts, such as hotels, hospitals, universities and sport facilities.

To help utilities in North America better serve their large consumers, Itron introduced its cellular solution for water built on Itron's global WaterMind solution. The solution enables utilities to monitor distribution systems and receive real-time updates on performance from C&I customers via a public cellular network.

The solution features an analyzer module with cellular communications, a pressure sensor and Itron's software as a service. When used with Itron Analytics, the solution combines critical pressure data, flow analysis and consumption information with fundamental AMI data to provide utilities with an effective distribution monitoring system.

FEATURES AND BENEFITS

Accurate measurement

The WaterMind Analyzer permanently collects data from up to four water meters and an optional pressure sensor. Innovative flow-rate and pressure measurement technology enables accurate recording of minimum and peak values.

Intelligence within

Unlike standard data-loggers, WaterMind does not transfer millions of bits of raw data each day to the back-office of the utility. Instead, it was designed with maximum intelligence at the metering point to process data as early as possible in the chain of information.

The WaterMind Analyzer permanently audits water meters, comparing real-time water consumptions with actual meter performance and flow range characteristics. This allows dynamic detection of meters that are not correctly selected or sized.

Reliable data transmission

An optional external antenna can be connected to the WaterMind Analyzer in the most difficult locations. Every day, the WaterMind Analyzer communicates pre-analyzed information that has value for the operators.

Real time monitoring

On alarm detections, the WaterMind Analyzer immediately sends alert messages to the cell phone of the support team in charge or Itron Analytics. This allows immediate reaction on events such as meter blockage, excessive flow consumption or significant pressure drop.

Easy installation

The WaterMind Analyzer is easily configured with its large display and push-buttons, avoiding the need for laptop or other equipment in harsh environment. At the end of the installation procedure,

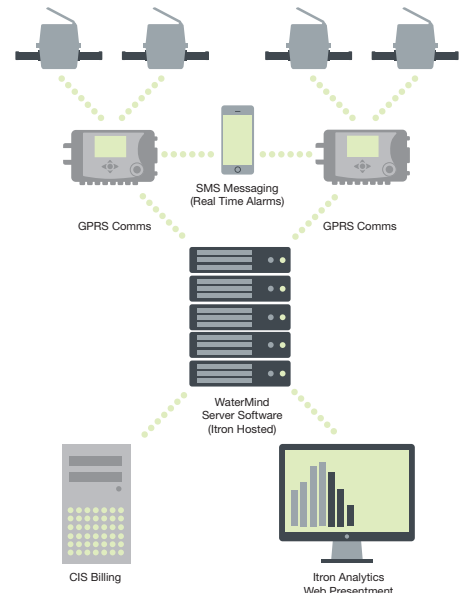
the GPRS Reception Signal Strength Indicator is directly made available on the cell phone of the installer. If required, configuration parameters can be modified over the air without going on site at a later date.

ITRON ANALYTICS

The data and information from the WaterMind Analyzer is presented within Itron Analytics, a hosted application that manages, analyzes and stores data collected using any of Itron's data collection systems. When used with Itron Analytics, the WaterMind solution combines

critical pressure data, flow analysis and consumption information with fundamental AMI data to provide utilities with an effective distribution monitoring system.

WATERMIND ARCHITECTURE



Inputs	Meter input	Up to 4 water meters equipped with pulse output or 2 meters equipped with pulse + tamper detection
	Pressur input (Optional)	1 pressure sensor (0 to 350 psi)
	Alarm inputs	2 contact inputs (e.g. for detection of cable-cut, intrusion)
Analysis	Meter and consumption audit	Continuous flow and pressure analysis
	Internal back-up memory	62 days of data (15 minutes intervals)
Output	GPRS	Data file transmission via GPRS network Request on demand
	Pulse output	Retransmission of pulses coming from the meter
Installation	Case mounting	Wall mounting
	Protection class	IP66 enclosure (IP67 enclosure available on demand)
	Operating temperatures	-20°C to +55°C
	ATEX environment	Approved for installation in safe areas (associated apparatus). Approval N° LCIE 08 ATEX 6058 X
	SIM card	Internal slot mounting. Installation by utility operators
	Configuration	Manual installation using large display and 5 push-buttons No need to bring laptop on site
Maintenance	Antenna	Internal antenna in standard installation conditions External antenna can be connected in difficult locations
	Firmware upgrade	Over the air through GPRS connection or local via infrared port
	Power supply	Autonomous lithium battery type 5 years lifetime with daily data transmission / Easily exchangeable

- » Daily transmission to supervision software
 - 15 min (GPRS) values (consumption + pressure minimum /maximum / average)
 - daily flow-rate distribution
 - real peak flow values with time of occurrences
 - meter is over-sized, under-sized or out-of-range
 - leakage detection
 - tariff management
- » Alert messages
 - blocked meter
 - flow-rate above limit
 - pressure below or above limits
 - tampering



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