



Electronic  
Water Metering  
North America



elster

# Strengthening Elster's position in North America

Elster AMCO Water (Elster) has focused its operations on the continued growth of the North American 'solid state' electronic water meter market.

Elster continues to operate from Ocala, Florida, providing sales, customer service and technical support for the North American market.

## Advanced electronic water metering

This market is the fastest growing segment in North America driven by customer demand for meter products with improved long term accuracy, durability and sophistication designed to meet the utility metering challenges of tomorrow.

Elster is well positioned to serve this exciting and growing market by solely offering a comprehensive portfolio of electronic no-moving part meters for commercial/industrial (evoQ<sub>4</sub>) as well as residential (SM700) applications ranging from 5/8" through 12".

### SM700

The SM700 residential water meter utilizes fluidic oscillation sensing to surpass mechanical metering performance across all flow ranges and exceeds AWWA C713 requirements. Available in sizes from 5/8" through 1", the SM700 will complete a comprehensive portfolio of battery powered electronic revenue water meters.



### evoQ<sub>4</sub>

The evoQ<sub>4</sub> is the market leading commercial and industrial electronic water meter utilizing electromagnetic flow measurement with a high continuous sampling rate to deliver excellent accuracy performance with class leading battery life. The evoQ<sub>4</sub> is available in sizes 1.5" through 12" and is provided in standard lay lengths for ease of installation.



## Sustained accuracy

Elster's suite of electronic metering products delivers a high level of accuracy over a variety of installation conditions and applications. The meters are well suited for their respective high and low flows within their size classes.

With no moving parts, these measurement technologies are unaffected by the particulates that can prematurely degrade traditional mechanical meters, eliminating the need for regular maintenance, testing and periodic calibration.

Most importantly, the meters' accuracy performance is sustained over the life of the meter.

Elster's electronic meters are constructed from materials chosen to resist corrosion without concern for lead contamination of water supplies and are in compliance with the requirements of NSF-61 and the Safe Drinking Water Act (January, 2014).



### Key benefits of electronic flow measurement

- Maintenance free measurement technology with no-moving parts
- Sustained performance and accuracy over the life of the meter
- No lost revenue through typical progressive loss of accuracy
- Broad flow range comparable to and/or exceeding that of mechanical meter technologies
- Output choices to integrate with AMI and network management systems
- evoQ<sub>4</sub> electromagnetic measurement principle
  - Highly accurate - 0.5 second sampling rate
  - Network management and leak detection capabilities
  - Easy installation with standard lay lengths
  - FM & UL approval for fire service applications
- SM700 fluidic oscillator design
  - Embedded intelligence with status functionality
  - Longer field service life
  - Factory potted connectivity
  - Removable battery allowing for ease of recycling

## Improved performance

Elster's electronic meter range is compatible with AMR/AMI solutions whereby future register change outs would not be required. The evoQ<sub>4</sub> offers further output choices to integrate the meters to both AMR/AMI and/or alternative network management systems.

Customer's residential and commercial revenue metering, network management and leak detection capabilities will improve through the use of these innovative, yet proven metering solutions.

## Next generation technology

As of Q2 2013, Elster will have incorporated some exciting design enhancements for the SM700 residential meter. The enhancements supersede existing models and were planned to enable the manufacturing and supply chain to be ready for anticipated market demand. The latest generation of SM700 electronics will provide an extended battery life; also with the environment in mind, at the end of the meters useful life the battery pack will be removable and separately recyclable reducing a utilities cost of disposal.

Factory potted connections provide options for in-line connector or flying lead options allowing AMR/AMI compatibility in the field. Variants up to 1" in size will be available providing a comprehensive range of products that will include common features and an enhanced sealing area for ease of installation.

## Leading the way

Further exciting changes to the residential product line will be introduced in 2013 as part of Elster's on-going commitment for continuous improvement and market development. This will include the launch of the new Polymer Q700 range of electronic residential water meters. The lighter weight, yet robust polymer version will further reduce customer carbon footprint objectives.

The changes signify a major milestone in the re-shaping of the Elster North American Business Operation by maintaining and further developing its presence in the water metering industry. Elster has positioned itself as the preferred electronic metering technology supplier to the North American market.



## About Elster AMCO Water, LLC

Elster AMCO Water is part of Elster Group, one of the world's largest measurement and communications technology providers for gas, electricity and water industries. We are committed to delivering superior customer service, high-quality products and innovative solutions to the water industry.

## About Elster

Elster is a world leader in measuring and improving the flow of water, natural gas and electricity in more than 130 countries. With one of the most extensive installed revenue measurement bases in the world, and more than 200 million metering modules deployed over the course of the last 10 years alone, Elster enables the vital connections between technology, energy and critical resources for our global community.

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