evoQ$_4$

Electromagnetic water meter

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Available with optional replaceable battery

Durability - Accuracy - Reliability

Today's water meters need to be more durable, accurate and reliable with advanced flow technology that has the capability to capture revenue while reducing overall operating costs. The evoQ$_4$ provides a total solution for commercial water utility metering, by filling the needs of turbines, compounds, single jets and electromagnetic meters. With advanced measurement and flow technology, the evoQ$_4$ battery powered mag meter delivers high accuracy through a wide range of flows and varied conditions and applications. Typical accuracy performance ranges from 99.25% to 100.75% (+/- 0.75% error) of true value through the normal flow range. The meter line can be sized to suit either predominantly high or low flow rates, and is ideal for a wide variety of bulk flow metering applications, such as network monitoring, leakage detection and commercial billing.

Durability
- Stainless steel flow tube
- Lightweight for easy storage, transport and installation
- IP68 rating provides protection for internal electronics from water ingress

Accuracy
- Continuous sampling rate of 0.5 second
- Stainless steel electrodes to eliminate corrosion concerns
- Sophisticated signal processing routines

Reliability
- Designed for use in flooded meter chambers
- Dependable connectivity to critical distribution management and reading systems
- AMR/AMI and data-logging device compatible

Maintenance free
Designed without moving parts, the evoQ4 is maintenance free, with a 10-year battery life or optional replaceable battery. It does not require calibration typical of mechanical and other electromagnetic meters.

Real-time data
A large, bright and easy to read LCD displays net volume and instantaneous flow rate for reference. The evoQ4 also has alarm functions providing real-time status, to ensure no loss in measuring continuity.

Easy access
The optional remote display unit provides a clear LCD for simple access in hard-to-read applications. It automatically adjusts to match the totalizer numerals from the main meter display, eliminating the need for programming. The remote display includes two pulse outputs for connection to ancillary devices such as AMR or process monitoring devices.

Low pressure loss
An unobstructed flow tube ensures minimal pressure loss to reduce network system pressures, reducing the occurrences of burst pipes and extending the useful life of pumping stations and lowering energy expenditures.

Simple installation
Installation of the evoQ4 is simple. Just fit and go, no need for grounding rings or programming with a laptop in a vault. The evoQ4 comes in AWWA C701 Class II Turbine meter lay lengths. The floating flanges are epoxy coated cast iron to reduce weight and to speed the fit into older piping systems. The 1.5" and 2" comes with oval flanges and the 3" and larger meters come with a round flange. All flanges conform to ANSI B16.1 Class 125 standards.

Sustained accuracy
evoQ4 protects utility revenue from losses typical to mechanical meters. Turbine or rotor element wear and compound changeover problems degrade the accuracy of mechanical meters. evoQ4 eliminates these concerns over such mechanical element limitations.

System options

Display only
Simple, visual read register with no output communications. Remote display, pulse, or encoder output can be easily added through field upgrade.

Meter with remote display
With the addition of a remote display unit (pictured left) users can visually read a meter installed in inaccessible areas. The remote display also features two pulse output channels.

Pulse or encoded output
With the addition of a plug and play pulse or encoder output module users can connect the meter to ancillary devices including AMR/AMI endpoints, touch-reading pads, data-loggers or industrial remote monitoring systems.

Combined pulse + encoder output
Utilities can now use one output module that provides both the encoded output for use with all major AMR/AMI radio systems as well as a pulse for end user SCADA or other facility monitoring system.

The evoQ$_4$ meets the needs of traditional turbine, compound, single jet and mag meters.

Display functions

1. Volume – the net volume of water measured is displayed.
2. Flow Rate – If water is flowing in the reverse direction a minus sign is displayed to the left of the value.
3. Low-Battery – The indicator appears when the battery voltage is low and the meter should be replaced.
4. No-Water – The indicator blinks when there is an empty pipe condition in the meter.

evoQ$_4$ FSM (Fire Service Meter)
As an optional feature, the evoQ$_4$ comes with a full FM Standard 1044 and UL 327b listing for use as a fire service instrument. Replace those monstrous mechanical fire service assemblies with an easily fit solid state meter.

evoQ4 LF (Low Flow)
The evoQ4 is now available in an extended low flow version for sizes 1.5" and 2". This compact model is suitable for large PD meter replacement programs, including those found in small enclosures.

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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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Vital Connections

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