

ADVANCED MEASUREMENT AND FLOW TECHNOLOGY

evoQ₄ Electromagnetic Water Meter



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 evoQ₄ provides a total solution for commercial water utility metering, meeting the needs served by traditional turbines, compounds, single jets and electromagnetic meters.

With advanced measurement and flow technology, the evoQ₄ 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 and does not require calibration typical of mechanical and other electromagnetic meters.

REAL TIME DATA

A large, bright and easy-to-read LCD displays 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

Optional remote display unit provides a clear LCD for simpler access in hard-to-read applications. The remote display includes two pulse outputs for connection to ancillary devices such as AMR or process monitoring devices.

LOW PRESSURE LOSS

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 flanges are epoxy coated cast iron to reduce weight and prevent corrosion. 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.



Available with optional replaceable battery in 1.5" – 12" sizes

MODELS

evoQ₄

The evoQ₄ meets utility needs for traditional turbine, compound, single jet and mag meters.

evoQ₄ LF (Low Flow)

The LF version of the meter is available in 1.5" and 2" sizes. It delivers improved low flow performance – down to 0.25 gpm. The reduced register height and lay lengths matching AWWA C700 allow installation into tight spaces, making this version the perfect replacement for intermediate size mechanical meters.



evoQ₄ FSM (Fire Service Meter)

As an optional feature, the evoQ₄ comes with FM Standard 1044 (3" – 8") and UL 327b (1.5" – 8") listing for use as a fire service instrument. Replace those monstrous mechanical fire service assemblies with an easily fit solid state meter.



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 right) users can visually read a meter installed in an inaccessible area. The remote display automatically updates to the meter total and features two pulse output channels.

DISPLAY FUNCTIONS

Volume – the net volume of water measured is displayed.

Flow Rate – If water is flowing in the reverse direction a minus sign is displayed to the left of the value.

Low-Battery – The indicator appears when the battery voltage is low and the meter should be replaced.

No-Water – The indicator blinks when there is an empty pipe condition in the meter.

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, dataloggers or industrial remote monitoring systems.

Available with optional replaceable battery in 1.5" – 12" sizes



Meter with remote display



Find Out More

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