

EVOQ₄ FOR RECLAIMED WATER APPLICATIONS

Electromagnetic Meter sizes 1½ - 12"

As increasing demands strain water resources, water utilities need innovative ways to measure user's water consumption.

Electronic water metering offers utilities the means to fairly bill all consumers without costly meter testing and maintenance programs. Degradation of meter accuracy from mechanical wear in older meters means lost revenue and unaccounted water that utilities need not tolerate.

Our evoQ₄ electronic water meters provide utilities with reliable metering performance, flexibility to connect to all major reading systems, and improved commercial meter data resolution. These benefits are now available for reclaimed water systems. evoQ₄ RW includes the lilac identifying lid and appropriate application allowances for use measuring reclaimed water.

OPERATION

The evoQ₄ is a battery powered electromagnetic water meter that meets AWWA Standard C715. It is suitable for a wide range of metering applications, including reclaimed water. Using Faraday's law of electromagnetic induction, magnets provide a magnetic field within the pipe; two electrodes measure the induced voltage that is proportional to the flow of conductive water through the field in the pipe. Every 0.5 seconds the measurement is taken and the totalized volume is calculated and updated on the LCD display. The meter measures flow velocity and infers totalized volume; allow for 5 pipe diameters of straight pipe upstream and 3 pipe diameters of straight pipe downstream for optimum performance.

APPLICATION

The evoQ₄ product line is suited for metering utility customer services. The reclaimed water version is for general use with reclaimed cold water up to 120°F; this reclaimed water version carries the lilac shroud marking to identify the meter should never be used in potable water systems. Reclaimed water should be treated to a level to allow beneficial uses. Treatment should include oxidation, coagulation, filtration, and disinfection. This version of the meter is not intended for use with untreated sewerage and wastewater.

FEATURES AND BENEFITS

10 YEAR CONTINUOUS LIFE

No need for costly and time consuming replacement.

NO MOVING PARTS

Maintenance free.

0.5 SECOND SAMPLING RATE

Highest accuracy.

WIDE MEASURING RANGE

Suitable for all commercial metering applications.

SIMPLE INSTALLATION

No additional training required.

PULSE OR ENCODER CONNECTIVITY

Pre-equipped or retrofitted for your AMR and telemetry needs.

AWWA LAY LENGTHS

Simple changeout.

IP68 SEALED

Provides long, trouble-free life.



The evoQ₄ electromagnetic Meter RW is designed for 10 years of continuous operation with no battery changes necessary.

Honeywell

With the addition of outputs described below, the meter can fulfill a number of distribution management roles as well.

PULSE OR ENCODER OUTPUT

The meter can be fitted with a pulse output device that can be attached to a radio transceiver module or a data logger. The pulse output can be programmed in the factory to meet the needs of the utility. For utilities preferring encoded output technologies, a selection of encoder modules are available for interface with AMR or AMI radio systems.

REMOTE DISPLAY

The meter can be fitted with a remote display. A two channeled output can provide both forward and reverse pulses.

CONNECTIONS

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 1/2" and 2" meters come with an oval flange and the 3"- 12" meters come with a round flange.

All flanges conform to ANSI B16.1 Class 125 standards.

LCD

Bright, large and easy-to-read LCD incorporating totalized volume and a reference flow-rate indicator. Alarm functions provide in-situ status ensuring no loss in measuring continuity. An IP68 seal ensures the meter electronics are safely protected providing long term reliability.

MATERIALS

- Body:** Stainless steel grade 304
- Flow tube:** Stainless steel grade 316
- Liner:** Polyethylene epoxy
- Electrodes:** Stainless steel grade 316
- Flanges:** Epoxy coated cast iron
- Register:** Stainless steel with glass lens
- Register housing/lid:** UV-resistant plastic
- Environmental class:** IP68 hermetically sealed unit waterproof to 30 ft depth

DIMENSIONS AND NET WEIGHT

See the meter variant specification sheet for dimensions and weight.

PERFORMANCE DATA

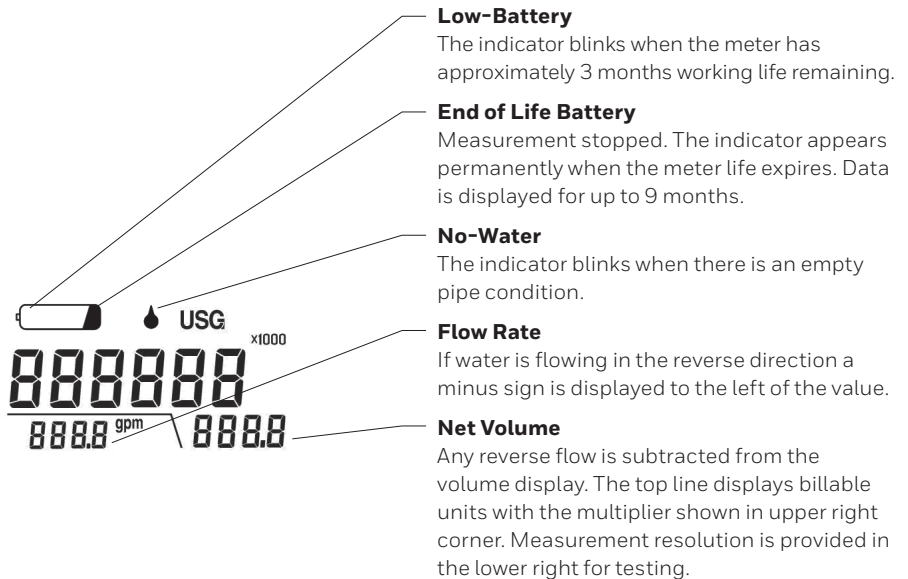
See the meter variant specification sheet for performance specifications.

DISPLAY ELEMENTS

See the meter variant specification sheet for display element details for each type and size.

VARIANTS AVAILABLE FOR CONFIGURATION FOR USE IN RECLAIMED WATER APPLICATIONS INCLUDE:

- evoQ4 Standard
- evoQ4 Alternate Length
- evoQ4 Low Flow



Find Out More

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