

# evoQ4™ Electromagnetic Meter

Sizes 2" to 8"



	Size	2"	3"	4"	6"	8"
<b>Performance</b>						
Low flow GPM > 95%		0.25	0.6	1.7	4	8
Normal flow GPM ± 1.5%		1	2	4	8	16
Max. continuous flow GPM ± 1.5%		176	440	700	1100	2770
Max. flow GPM ± 1.5%		220	550	880	1400	3500
Max. operating pressure psi		230	230	230	230	230

## Operation

The evoQ4 is a battery powered electromagnetic water meter that is suitable for a wide range of metering applications. Using Faraday's law of electromagnetic induction, two magnets provide a magnetic field within the pipe that measures the flow of the conductive water. The meter does not contain any moving parts so regular maintenance is not required. The meter is designed for 10 years of continuous operation with no battery changes necessary. With the sampling rate of 0.5 sec, the evoQ4 has excellent accuracy over a wide flow range.

## Application

The meter is for use only with potable cold water up to 120°F. The meter will typically register at +/-0.75% accuracy at normal and high flows and better than 95% accuracy at low flows. Accuracy tests are made before shipment, so no adjustments need to be made before installation.

## 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, an encoder module is available for interface with AMR systems.

The evoQ4 is a single meter that meets the needs of traditional turbine, compound, single jet and magnetic meters.

## 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 cover
Register housing/lid	UV-resistant plastic
Environmental class	IP68 hermetically sealed unit Waterproof to 30 ft depth

## Features

- 10 year continuous life
- No moving parts
- 0.5 second sampling rate
- Wide measuring range
- Simple installation
- Pulse or encoder connectivity
- AWWA lay lengths
- IP68 sealed
- NSF61 Annex G listed

## Benefits

- No need for costly and time-consuming battery replacements
- Maintenance free
- Highest accuracy
- Suitable for all commercial applications
- No additional training required, no programming
- Pre-equipped or retro-fitted for your AMR and telemetry needs
- Simple change out
- Provides long, trouble-free life
- Zero lead contaminants



**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 2" comes with an oval flange and the 3"- 8" come with a round flange. All flanges conform to ANSI B16.1 Class 125 standards. Allow for 5 pipe diameters of straight pipe upstream and 3 pipe diameters of straight pipe downstream for optimum performance.

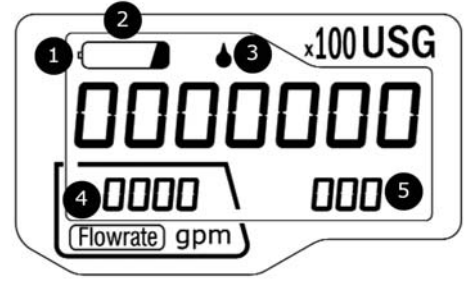
**LCD**

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 thus ensuring long term reliability.

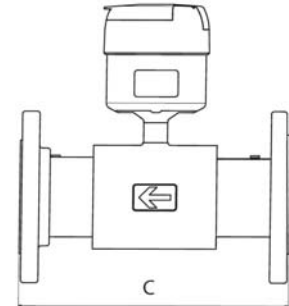
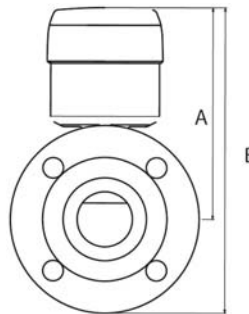
**Display functions**

- Volume – The LCD totalizer displays the net volume of water measured.
- Flow rate - The flow rate is displayed in forward and reverse. If water is flowing in the reverse direction, a minus sign is displayed to the left of the values.
- Low battery - An indicator will appear when the battery voltage is getting low.
- No water - An indicator will blink when there is an empty pipe or no water in the meter.

- 1 Low battery. The indicator will blink when the meter has approximately 3 months working life remaining.
- 2 End-of-life battery. Measurement stopped. The indicator will appear permanently when the meter life has expired. Data is stored for up to 9 months.
- 3 No water. The indicator will blink when there is an empty pipe or no water in the meter.
- 4 Flow rate. If water is flowing in reverse direction, a minus sign is displayed to the left of the values.
- 5 Net volume. Any reverse flow will be subtracted from the volume display. The decimal places are shown.



Meter Size	Dimensions (inches)			Weight (lbs)
	A	B	C	
2"	8.12	11.24	10	11
3"	8.52	12.27	12	22.5
4"	8.72	13.22	14	35.5
6"	9.82	15.32	18	55.5
8"	10.71	17.16	20	81.5



2" - 4" USG

2" - 4" CuFt



6" - 8" USG

6" - 8" CuFt



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