

evoQ₄ Electromagnetic Meter Remote Display

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

Specification

Operating temperature	-4°F to +140°F
Pulse output signal	Open drain N-channel Field Effect Transistor (operates like an NPN open collector transistor)
Maximum load current	20 mA
Maximum load voltage	30 V DC
Maximum distance between meter and remote	100 ft
Max. pulse transmitting distance	650 ft
Standard cable length	30 ft
Power	Battery matches the evoQ ₄ battery with an anticipated 10 year life
Environmental class	IP63*
Dimensions	3 5/8" L x 1 1/2" W x 6 3/8" H
Register options	Available in USG, CuFt, m ³

*Note: IP63 rating means the display is dust tight and will withstand water spray up to a 60° angle. The remote display cannot be submerged. For installation in more difficult conditions, user supplies further enclosure protection.



Operation

The evoQ₄ remote display gives the customer the ability to display the net total reading from the meter in a more easily accessible location. The remote display is battery operated and reads the evoQ₄ via optical interface displaying the volume and flow in real time.

This remote display can be retrofitted in the field to the evoQ₄ meter at any time and provides simple plug and play operation.

The display value will update with the value shown on the meter register whenever a good connection is established.

Pulse output

The evoQ₄ remote display features a dual-channel pulse output giving the customer the ability to connect to multiple data management outlets, AMR/AMI or data logger systems. The pulse output comes in a standard format but can be changed in the field to one of a number of pulse logic options.

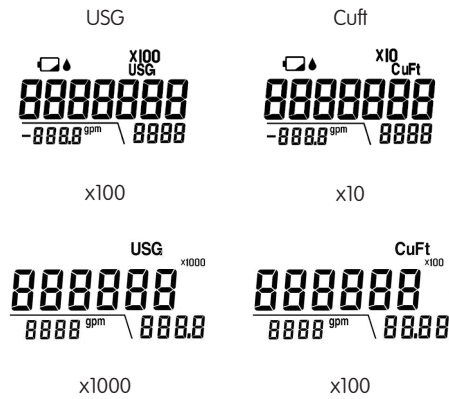
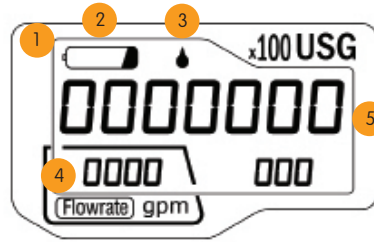
LCD

Bright, large and easy-to-read LCD incorporating totalized volume and a reference flow-rate indicator. Alarm functions provide real-time status ensuring no loss in measuring continuity. The remote display housing provides some protection from water and dust intrusion and meets a minimum of IP63 and NEMA-3R ratings.



Display functions

- 1 **Low-Battery** – The indicator blinks when the meter has approximately 3 months working life remaining.
- 2 **End of Life Battery** – Measurement stopped. The indicator appears permanently when the meter life expires. Data is displayed for up to 9 months.
- 3 **No-Water** – The indicator blinks when there is an empty pipe condition.
- 4 **Flow Rate** – If water is flowing in the reverse direction a minus sign is displayed to the left of the value.
- 5 **Net Volume** – Any reverse flow is subtracted from the volume display. The top line displays billable units with the multiplier shown in upper right corner. Measurement resolution is provided in the lower right for testing.



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