

evoQ₄[™] Remote Display



Specifications

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	20mA
Maximum load voltage	30V DC
Maximum distance between meter and remote	100 ft
Maximum pulse transmitting distance	650 ft
Standard cable length	30 ft
Power	Battery matches the evoQ4 battery with an anticipated 10 year life
Environmental class	Waterproof structure IP 63* Sensor is rated IP 68.
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.

Operation

The evoQ₄ remote display is designed to give 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 optically 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.

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 indicate either forward or reverse flow.



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 protection from water and dust intrusion and meets a minimum of IP63 and NEMA-3R ratings.

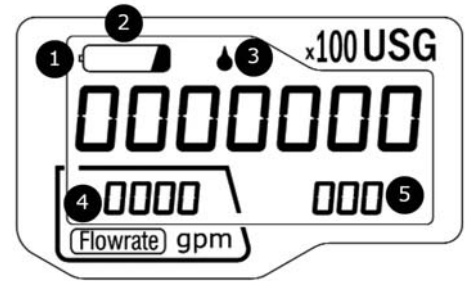
Display functions

- 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.

Wire color coding

- Red – pulse channel 1 (+)
- White – pulse channel 2 (+)
- Green – signal ground (-)

- 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.



Elster AMCO Water, Inc.
1100 SW 38th Avenue
Ocala, FL 34474 USA

T +1 800 874 0890 (US)
T +1 866 703 7582 (Canada)
T +1 787 872 2006 (Caribbean)
F +1 352 368 1950

evolution@us.elster.com
www.elsteramcowater.com

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