

# evoQ<sub>4</sub> Electromagnetic Meter Sensus Encoder Module



## Specification

Protocol	Sensus V frame
Encoded digits	6 most significant v_6 v_8-8 most significant
Encoder ID	10 digit fixed
Power source	Lithium battery (10 yr)
Environmental rating (with appropriate splice kit)	NEMA 6P / IP68
Cable lengths (bare wire)	30 feet, 90 feet
Optional connectors (25')	Itron In Line Connector™ Nicor Connector™
Compatibility	MegaNet™ Enc MTU Itron™ 60W, 60W-R, 200W, 100W Datamatic™ Firefly, MOSAIC Others, contact AMI provider tech support
Materials module	ABS Resin 3 conductor AWG 22 cable

## Operation

The Elster AMCO Water evoQ4 Sensus Protocol encoder module is designed for use with 3 wire radio endpoints. The 3 wire to 2 wire adapter module is necessary to allow the encoder to interface with 2 wire endpoints such as wall or pit pads for touch reading or AMR devices that utilize a 2 wire coupler integrated into the radio module.

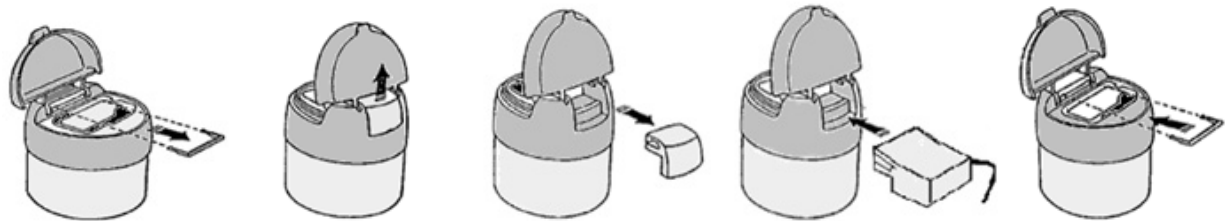
The encoder reading is obtained through the normal means of interrogation of the reading point via radio endpoint.

The Sensus (also called V frame) protocol is transmitted from the encoder module and reported to the interrogating device.

Reading resolution is determined by the version of Sensus protocol encoder module used and the programming set in the handheld. Either 6 digit or 8 digit reads are transmitted.

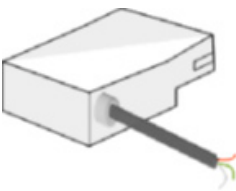


evoQ4 size and units	1.5"-4" USG	6"-12" USG	1.5"-4" CuFt	6"-12" CuFt	1.5"-4" M3	6"-12" M3
<b>Resolution</b>						
6 Digit Sensus encoder module	123456 x 1000 USG	123456 x 1000 USG	123456 x 100 CuFt	123456 x 100 CuFt	123456 x 1 M3	123456 x 1 M3
8 Digit Sensus encoder module	12345678 x 10 USG	12345678 x 10 USG	12345678 x 1 CuFt	12345678 x 1 CuFt	12345678 x 10 Litre	12345678 x 10 Litre



1. Lift the lid, using a small screwdriver blade, carefully remove the pulser clip.
2. Remove the blank cover by lifting up...
3. ...and then slide out.
4. Fit the Encoder unit in the opposite manner to the cover removal.
5. Replace the securing clip (lugs uppermost).

**WARNING:** Take care not to dislodge the rubber gasket on the underside of the unit when fitting / removing.



Generic Wire Diagram:

- Red: Data
- White: V+ (power)
- Black: V0 (ground)



United States  
 Elster AMCO Water, LLC  
 10 SW 49th Avenue, Building 100  
 Ocala, FL 34474  
 T +1 800 874 0890  
 F +1 352 368 1950  
 watermeters@us.elster.com

Canada  
 Elster Canadian Meter Company Inc.  
 1100 Walker's Line, Suite 101  
 Burlington, Ontario L7N 2G3  
 T +1 866 703 7581  
 F +1 905 634 6705  
 watermeters@ca.elster.com

Caribbean  
 Elster AMCO Water, Inc.  
 P.O. Box 225, Carretera 112 KM 2.3  
 Isabella, PR 00662  
 T +1 787 872 2006  
 F +1 787 872 5427  
 prwatermeters@pr.elster.com

© 2013 by Elster. All rights reserved.  
 The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. These products have been manufactured with current technology and in accordance with applicable AWWA Standards.