

# evoQ<sub>4</sub> Electromagnetic Meter Elster Protocol Encoder Module



## Specification

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

## Six digit resolution

- 1000 US gallons
- 100 Cubic feet
- 1 Cubic Meter

## Operation

The evoQ<sub>4</sub> electronic water meter offers users flexibility in output choices. The modular design of the output interface allows utilities to easily retrofit meters to upgrade from direct reading or switch among different output modules. The Elster protocol encoder module is appropriate for interface where Elster mechanical water meters using Invision™ Encoder register connected the meter to the utility Automatic Meter Reading system or Automated Metering Infrastructure. Touch reading via inductive pads is supported as well. Upgrading from Touch reading to AMR does not require a module change.

The module operates via optical interface with the evoQ<sub>4</sub> register output. The meter register and the potted encoder module remain fully protected from water ingress, retaining the outstanding reliability inherent to the evoQ<sub>4</sub> product line. The electronic register information is decoded by the encoder and translated to the ASCII standard frame message. Endpoints and interrogation devices obtain the reading through normal transmission processes.

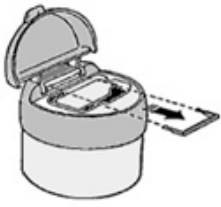
Optional connection variants include bare wire with field splice kits for indoor or submerged locations, Nicor Connector, or Itron In-Line Connector™.

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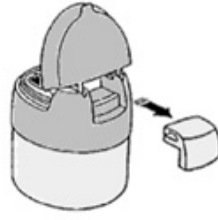




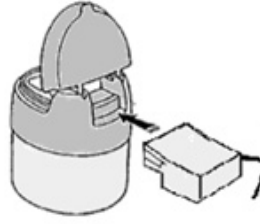
1. Lift the lid, using a small screwdriver blade, carefully remove the pulser clip.



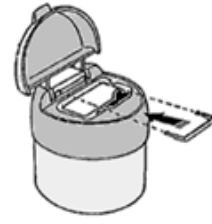
2. Remove the blank cover by lifting up...



3. ...and then slide out.

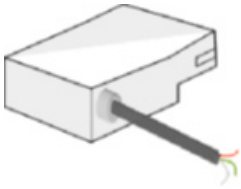


4. Fit the Encoder unit in the opposite manner to the cover removal.



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)



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