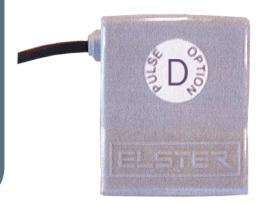


evoQ4 Pulse output module



Specifications

Operating temperature Pulse output signal Maximum load current Maximum load voltage Power

Power

Maximum pulse transmitter

distance

Standard cable length Environmental rating Dimensions (mm, in)

Weight

Minimum pulse width

15 °F to 120 °F, -10 °C to +55 °C Open drain NPN current sink 20mA

30V DC

Battery powered, 10 years 200 meters, 650 feet

10 meters (30 feet), 30 meters optional (98 feet) IP 68 / NEMA 6P

H 35 x W 55 x D 70, 1.4" x 2.2" x 2.75"

17oz, approx. 500 grams with 10m cable (30ft)

100ms ± 10ms.



Operation

The evoQ4 pulse module provides a reliable output communication for connection to all common data management devices, including data-loggers, AMR/I and SCADA systems. The pulse unit is self powered using its own batteries and does not affect the meter life.

Communication between the meter and the pulse module is via an infra-red LED and an optical sensor. A rubber grommet maintains a clear pathway.

Installation

The pulse unit can be fitted at any time to the evoQ4 meter, either pre-shipment or in-the-field. Simply connect the pulser to the meter for instant functionality. The unit is fully hermetically sealed and is suitable for use in flooded pits up to a water depth of 30 feet. See evoQ4 installation operation manual for details.

Pulse output

The evoQ4 pulser features a dual channel, bi-directional capable pulse output and alarm indicator.

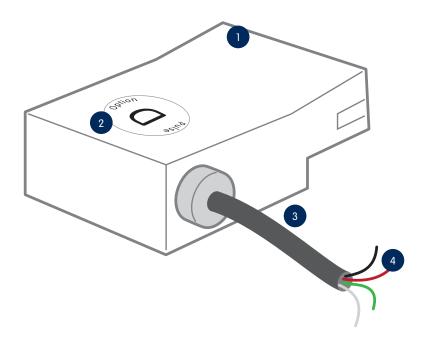
Pulser

- The evoQ4 pulser is fully sealed, IP68 unit suitable for installation in flooded environments.
- Pulse option label denotes the pulse configuration of the unit (see table below)
- Robust communication cable in standard 10m (30 ft) length; 30m (98ft) version is also available.
- 4 4-wire outputs: Red - Pulse channel 1 White - Pulse channel 2 Black - Alarm output* Green - Common.



The alarm output channel can provide an output signal to indicate:

- Meter low battery
- Pulser low battery
- Measurement stopped / No water
- Tamper (pulser removed from meter)



Pulse output options					
Wire color	Red	White	Black	Green	
Function	Channel 1	Channel 2	Alarm	Common / Ground	
Pulse option label	Pulse weight				Note
F	1 USG / 0.1 Cuft / 1 L	1 USG / 0.1 Cuft / 1 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
K	10 USG / 1 Cuft / 10 L	10 USG / 1 Cuft / 10 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
Μ	100 USG / 10 Cuft / 100 L	100 USG / 10 Cuft / 100 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
Р	1000 USG / 100 Cuft / 1000 L	1000 USG / 100 Cuft / 1000 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
G	1 USG / 0.1 Cuft / 1 L	10 USG / 1 Cuft / 10 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
D*	10 USG / 1 Cuft / 10 L	100 USG / 10 Cuft / 100 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
L	10 USG / 1 Cuft / 10 L	1000 USG / 100 Cuft / 1000 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
N	100 USG / 10 Cuft / 100 L	1000 USG / 100 Cuft / 1000 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
Н	1 USG / 0.1 Cuft / 1 L	100 USG / 10 Cuft / 100 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
J	1 USG / 0.1 Cuft / 1 L	1000 USG / 100 Cuft / 1000 L	Alarm	Common / Ground	Net total (Fwd - Rev); Net total (Fwd - Rev)
Е	1 USG / 0.1 Cuft / 1 L	Direction Flag	Alarm	Common / Ground	Ch1 Pulse Fwd AND Rev; Ch2 Direction flag
В	1 USG / 0.1 Cuft / 1 L	1 USG / 0.1 Cuft / 1 L	Alarm	Common / Ground	Ch1 Pulse Fwd; Ch2 Pulse Rev
S					Non Standard Configuration

*Standard configuration if no pulse weight specified

Fwd - Rev: Forward pulses net of any reverse flow using compensation method internal to pulse module Fwd AND Rev: Forward and Reverse pulses (direction flag outputs high state on forward flow)
Users should check compatibility with electrical requirements of data loggers, SCADA systems, PLC etc.



United States Elster AMCO Water, LLC 10 SW 49th Avenue, Bldg. 100 Ocala, FL 34474 T +1 352 369 6500 F +1 352 368 1950 watermeters@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@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@elster.com

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