

ORION econometer



The ORION Econometer permits constant evaluation of the vessel's fuel efficiency level.

Gain, damping, dimmer adjustments and help to repairing are accessible through keyboard.

Orion accepts all worldwide currencies.

Orion displays the consumption directly on the screen:

- ▶ in litre
- ▶ in euro

standard version consists of:

- ▶ one Main Cabinet (PVBEN420)
- ▶ two fuel flow meters with oval gears

Main features

Two LCD displays:

- ▶ Top LCD displays:
 - ▶ Instantaneous speed (knot)
 - ▶ Instantaneous consumption (litre/hour and Euro/hour)
 - ▶ Average consumption (litre/hour and Euro/hour).
- ▶ Bottom LCD displays:
 - ▶ Total distance (mile)
 - ▶ Daily distance (mile)
 - ▶ Total consumption (litre and euro)
 - ▶ Daily consumption (litre and euro)
 - ▶ Efficiency factor.

Main cabinet specifications

Dimensions	114 x 114 x 28 mm
Power supply	12 Vdc to 24 Vdc
Inputs:	200 ppm log speed Or NMEA0183 speed frames RMA, RMC, VHW, VLW, VTG with RS422 or RS232 protocol.
Outputs	Total consumption (litre) dry contact Or serial RS422 NMEA0183 format Or serial RS232 NMEA0183 format Power supply for sensors.

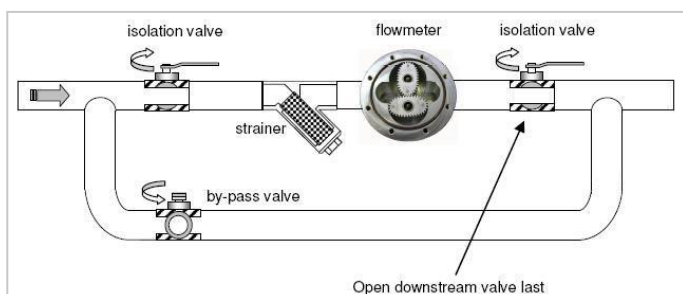
Options

It is possible to install a filter 40 microns (PVBEN484) or 100 microns (PVBEN485) before each sensor.

Heavy fuel or other flows, please contact AMESYS International/BEN.

Installation

- Install main cabinet in wheel house
- Install first sensor before injection pump
- Install second sensor after engine
- Install 40 microns (PVBEN484) or 100 microns (PVBEN485) filter before first sen.
- Install a by-pass device on each sensor for question of security.



Sensor specifications

	PVBEN484	PVBEN485
Nominal size	15mm (1/2")	25mm (1")
Process connections	BSP female threaded	BSP female threaded
Liquid	Fuel	Fuel
Body material	Aluminium	Aluminium
Rotor material	Aluminium	Aluminium
Bearing type	Hardened steel roller bearings	Hardened steel roller bearings
O-ring material	Viton	Viton
Accuracy	± 0.5%	± 0.5%
Repeatability	± 0.03%	± 0.03%
Pressure drop	0.5 bar at 2400 L/h	0.5 bar at 9000 L/h
Flow range (L/h)	60 à 2400	600 à 9000
Flow range (USGM)	0.26 à 10.6	2.6 à 40
Maximum pressure	68 bar (1000 psi)	68 bar (1000 psi)
Hall effect	166 T/litre	107 T/litre
Cable entries	3 à 6 mm ²	3 à 6 mm ²
Protection class	IP67	IP67
Power supply	5 to 24Vdc	5 to 24Vdc
Wire size	0.5 mm ²	0.5 mm ²
Temperature	-4°F to 250°F	-4°F to 250°F

The brochure is printed on paper containing 40% eco-certified fibers from sustainable forests management and 60% recycled fibers (FSC C014803).

All trademarks are the property of their respective owners. Also, the Atos logo, Atos Consulting, Atos Worldgrid, Worldline, Bluewin, Bull, Canopy the Open Cloud Company, Yunano, Zéro Email, Zéro Email Certified and The Zéro Email Company are registered trademarks of the Atos group. Atos reserves the right to modify this document at any time without notice. Some offerings or parts of offerings described in this document may not be available in all countries. Please contact your local Atos office for information regarding the offerings available in your country. This document does not represent a contractual commitment. February 2016 © 2016 Atos

www.benmarine.fr

This data sheet is subject to alteration without notice

Your business technologists. **Powering progress**

Atos