

SERVOMEX 1800MV

MARINE OXYGEN ANALYSER

The Servomex 1800MV Marine Oxygen Analyser offers a reliable, accurate and long life inert gas monitoring solution for oil, product and LNG tankers

- MED approved oxygen analyser
- Servomex non-consumable paramagnetic oxygen sensor
- Rugged design with very low maintenance and re-calibration requirements
- Range of alarm outputs to aid integration
- Easy to set up and operate
- Backed by Servomex worldwide service and support
- Express delivery available
- Optional wet gas sampling system available (MED approval does not cover sampling system)



SPECIFICATION

GAS MEASURED: OXYGEN, O₂

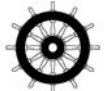
PERFORMANCE

Technology:	Magnetodynamic paramagnetic sensor
Range:	0 - 100% O ₂
Intrinsic Error (accuracy):	<0.2% of reading or 0.05% O ₂ ¹
Output:	One 4-20mA, isolated & one 0-1V dc, non-isolated. Ranges selectable from 0 - 2.5, 5, 10, 25 and 100% O ₂
Alarms: Concentration	Two volt free changeover relays
Response time (T ₉₀)	Analyser only: 4-8 seconds, dependant on configuration With wet gas sampling system: <12 seconds at recommended sample and bypass flow rates ²
Noise:	<0.1% O ₂ at optimum bypass flow rate with Nitrogen

PHYSICAL

Dimensions:(W x D x H)	448mm x 229mm x 652mm (17.6" x 9.0" x 25.7") (this includes wet gas system)	
Ingress Protection:	IP66 / NEMA 4X (analyser)	
Inlet Pressure:	Analyser only:	0.3kPag (0.04psig) minimum. Adjust pressure and sample flow externally to provide 50 to 250ml/min
	With wet gas sampling system:	2 to 140kPag (0.3 to 20 psig). Adjust flow externally to 200ml/min. System will automatically adjust to moderate pressure changes.
Sample Temperature:	Sample gas not above ambient	
Sample flow rate:	200ml/min recommended	
Bypass flow rate:	400 to 1100 ml/min (air) ³	
Filter Retention:	90% of 0.6µm particles ³	
Inlet/Outlet Connections:	1/4" NPT (Int) Connectors	
Operating Temperature:	-10°C to +50°C (+14°F to +122°F) - Below 0°C the water in the bubbler should be replaced by ethylene glycol	
Storage Temperature:	-20°C to +55°C (-4°F to +131°F)	
Atmospheric pressure:	79 to 124kPaa/11 to 18psia	

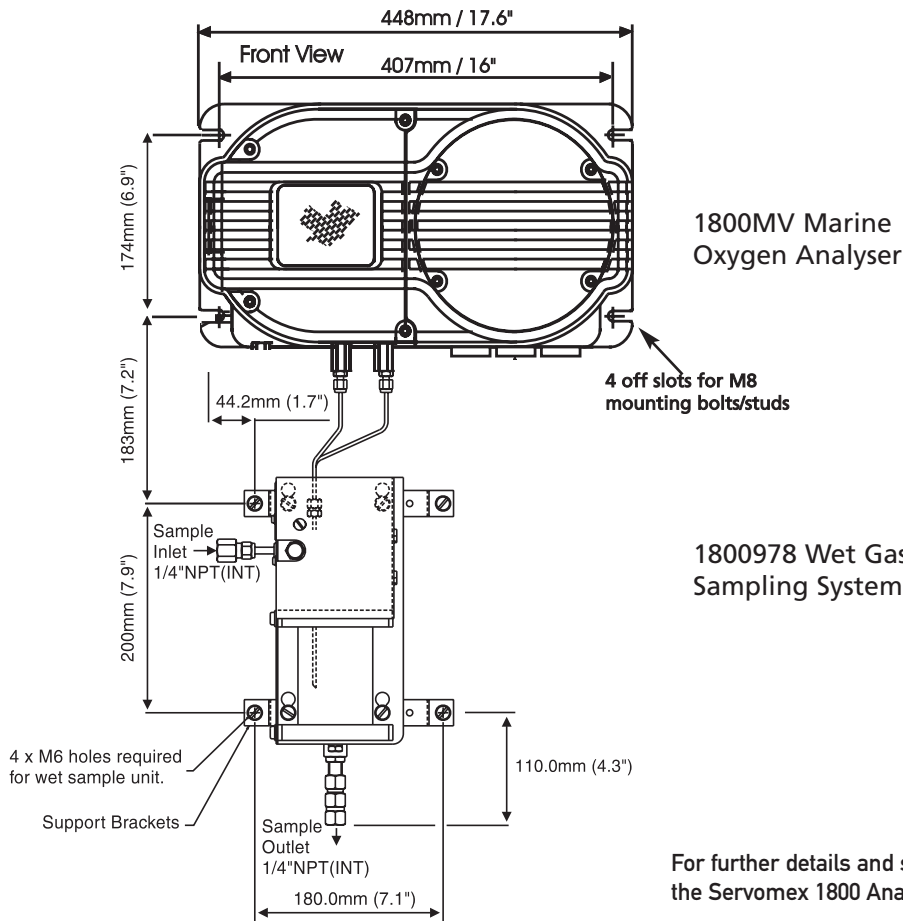
1. Whichever is the greater
2. Includes Servomex 1800MV analyser response time
3. Applies only when wet gas sampling system fitted



Performance Approval

The 1800MV complies with EN50104: 1999 "Electrical apparatus for the detection and measurement of oxygen", and meets the requirements of the Marine Equipment Directive (MED) Annex A.1/3.30 .

Note: There is no MED approval for the wet gas sampling system.



1800MV Marine Oxygen Analyser

1800978 Wet Gas Sampling System

For further details and specification of the Gas Analyser, please see the Servomex 1800 Analyser Product Brochure.

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Servomex has a policy of constant product improvement and therefore reserves the right to change specifications without notice.



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