

advantage

Ocean Link – easy to install VDO CAN instrumentation for sports boats.



VDO Ocean Link

performance

Plug & play – the fastest way to access precision engine data.

Engines on modern sports and leisure boats increasingly feature electronic management. To meet these new requirements, the VDO Ocean Line series now boasts a modular instrumentation concept for marine use: the Ocean Link. The main element and information powerhouse is a multifunctional tachometer with direct access to the CAN bus controlling the engine. The instrument can display and forward all available data to up to 20 additional display instruments.

Installation follows the practical plug & play principle, making further system expansion particularly convenient, with no need for complicated programming. Ocean Link has already established a successful track record with leading engine manufacturers Volvo Penta and MAN.



Easy Link gauges

20 slave gauges per master

Engine data

VDO Ocean Link

The central instrument automatically presents all the key data – up to 256 standard measurement values ranging from oil pressure and fuel consumption to operating hours – on a generously proportioned digital display. Besides a CAN interface with SAE J1939 data protocol it features two inputs for analogue sensors. The innovative Easy Link data connection renders complicated cabling unnecessary. The CAN interface also allows a second central instrument to be hooked up for positioning on the flybridge, for example. Display instruments for further dynamic measurement values receive updates from the central instrument every 20 ms. Like the rest of the Ocean Line, Ocean Link is available in various designs, including a range of installation depths, metric and imperial scales, and a number of bezel colour options. The instruments can also be conveniently integrated into customer-specific panel solutions.





Engine oil temp gauge VDO Easy Link instrument bus



Exhaust gas gauge



Gearbox oil temp gauge



Boost pressure gauge

VDO Ocean Link benefits:

Straightforward system expansion

- Easy Link connector
- Up to 20 other display instruments per central instrument
- Minimal cabling





Gearbox pressure gauge



Fuel tank gauge



Engine load



Fuel flow gauge

Plug & play principle

- Easy installation
- No reprogramming

Customer-specific integration

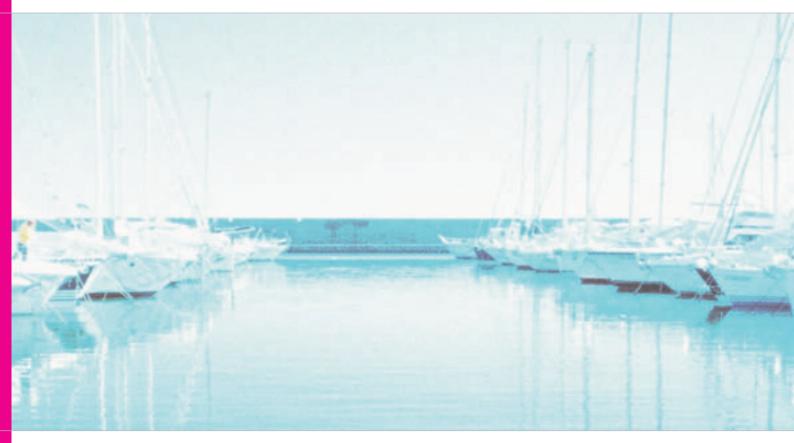
- Combined instruments
- Panel solutions

All Ocean Line benefits

- Double lens system
- Flush mounting
- Many design options

VDO Ocean Link

Facts. Functions. Figures.



Specification

Master (85 mm)

Translucent backlighting

Version
Housing
Bezel
Lens
Dial
Illumination
Pointer
Display
Connections
Installation

Indication area Nominal voltage Nominal position **Operating temperature** Storage temperature EMC

Protection class Max. no. of Slaves

Current consumption Data transfer **Power supply**

Plastic, coloured Plastic, double lens, anti-reflection Black with white graphics Red LED, 8 dimmer steps Translucent backlighting, black cap, white pointer 132 x 33 dots DELPHI connector, GT 150 Series Housing nut, nut jam high 0 - 17mm,

Plastic (flame-retardant) according to UL94 - V0

3000 or 4000 rpm 12/24 volts 0 - 90° angle according to VDON 2.700.1 -20 °C to +70 °C (at nominal voltage) -30 °C to +85 °C DIN EN 50081-1/1997-11, DIN EN 61000-6-2/ 2000-03 according to EMC Directive 89/336/EEC IP65, mounted, from the front according to IEC 529

120 mA without, 140 mA with illumination 10 V - 30 V

Slave (52 mm)

Translucent backlighting Plastic (flame-retardant) according to UL94 - V0 Plastic, coloured, clipable Plastic, double lens, anti-reflection Black with white graphics Red LED, 8 dimmer steps, adjustable via master Translucent backlighting, black cap, white pointer

Super Seal 1.5 Series AMP connector 282105-1 Mounted from the front, housing nut, nut jam height 0 – 12 mm, studs 12 – 25 mm flush mount: for 3 mm panel thickness with mounting angle, screws and studs on panel gasket Æ51.5/Æ60x2 270° (depending on slave functionality)

-20 °C to +70 °C (at nominal voltage) -30 °C to +85 °C CE according to EMC directive

Max. 20 gauges and 20 m cable length connected to master <70 mA with illumination Easy Link bus uni-directional from master to slave

Order data.

Part no.	Description	Range	Туре	Dial
N02 012 920	Master tacho	3000 min-1	85 mm master	black
N02 012 922	Master tacho	4000 min-1	85 mm master	black
N02 140 154	Gearbox pressure gauge	25 bar	52 mm slave	black
N02 140 156	Engine oil pressure gauge	10 bar	52 mm slave	black
N02 140 508	Boost pressure gauge	3 bar	52 mm slave	black
N02 140 512	Engine oil pressure gauge	0–150 psi	52 mm slave	black
N02 140 516	Gearbox pressure gauge	0-360 psi	52 mm slave	black
N02 224 080	Fuel tank gauge	4/4	52 mm slave	black
N02 226 210	Engine load	0-100%	52 mm slave	black
N02 270 040	Fuel flow gauge	0–80 l/h	52 mm slave	black
N02 311 054	Engine oil temp gauge	150 ℃	52 mm slave	black
N02 311 056	Engine coolant temp gauge	120 °C	52 mm slave	black
N02 311 536	Gearbox temp gauge	150 °C	52 mm slave	black
N02 311 540	Exhaust gas gauge	900 °C	52 mm slave	black
N02 311 544	Gearbox oil temp gauge	120-300 °F	52 mm slave	black
N02 311 546	Exhaust gas gauge	200–1700 °F	52 mm slave	black
N02 311 548	Turbo inlet temperature A	200-1700 °F	52 mm slave	black
N02 311 550	Turbo inlet temperature B	200–1700 °F	52 mm slave	black
N02 311 552	Engine coolant temp gauge	100-250 °F	52 mm slave	black
N02 311 554	Turbo inlet temperature A	100-900 °F	52 mm slave	black
N02 311 556	Turbo inlet temperature B	100-900 °F	52 mm slave	black
N02 413 058	Voltmeter	18-32 V	52 mm slave	black
N02 413 066	Voltmeter	8-16 V	52 mm slave	black
N02 311 542	Engine oil temp gauge	100–300 °F	52 mm slave	black

For further information about VDO visit the website: www.vdo.com

Siemens VDO Trading GmbH Kruppstraße 105 60388 Frankfurt am Main Germany Tel.: + 49 69 408 050 Fax: + 49 69 4080 5144 E-Mail: marine@vdo.com

VU23-0015-08 352 02

Errors and omissions excepted. Subject to modification. VDO Dayton and VDO are proprietary names of Siemens VDO Automotive AG.

www.vdo.com