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OceanLink – easy to install VDO CAN instrumentation for sports boats

VDO

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, VDO provides a modular instrumentation concept for marine use: the OceanLink. The main element and information powerhouse is a multifunctional tachometer with direct access to the engine CAN bus. The instrument can display and forward all available data to up to 20 additional satellite instruments. Installation follows the practical Plug & Play principle, making further system expansion particularly convenient, with no need for complicated programming.

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VDO OceanLink

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. Satellite instruments for further dynamic measurement values receive updates from the central instrument every 20 ms. OceanLink 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 data

Tachometer

VDO Easy Link
instrument bus

Engine oil
temp gauge

Exhaust gas
temp gauge

Gearbox oil
temp gauge

VDO OceanLink benefits

Straightforward system expansion	Plug & Play principle	Customer-specific integration	OceanLink benefits
• Easy Link connector • Up to 20 satellite instruments per central instrument • Minimal cabling	• Easy installation • No reprogramming	• Combined instruments • Panel solutions	• Double lens system • Flush mounting • Many design options

Boost pressure gauge | Gearbox oil pressure gauge | Engine coolant temp gauge | Fuel level gauge | Fuel flow gauge

Facts. Functions. Figures.

Specification	Master (85 mm)	Satellite (52 mm)
Version	Translucent backlighting	Translucent backlighting
Housing	Plastic (flame-retardant)	Plastic (flame-retardant)
	according to UL94-V0	according to UL94-V0
Bezel	Plastic, coloured	Plastic, coloured, clipable
Lens	Plastic, double lens,	Plastic, double lens,
	anti-reflection	anti-reflection
Dial	Black with white graphics	Black with white graphics
	or white with black graphics	or white with black graphics
Illumination	Red LED, 8 dimmer steps	Red LED, 8 dimmer steps, adjustable via master
Pointer	Translucent backlighting,	Translucent backlighting, black cap,
	black cap, white pointer	white pointer
Display	132 x 33 dots	
Connections	DELPHI connector,	AMP connector 282105-1,
	GT 150 Series	Super Seal 1.5 Series
Installation	Housing nut,	Mounted from the front, housing nut,
	nut jam height 0–17 mm	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
Indication area	3,000, 4,000 and 5,000 rpm	270° (depending on satellite functionality)
Nominal voltage	12 / 24 volts	
Nominal position	0–90° angle, according to	
	VDON 2.700.1	
Operating temperature	–20 °C to +70 °C	–20 °C to +70 °C
	(at nominal voltage)	(at nominal voltage)
Storage temperature	–30 °C to +85 °C	–30 °C to +85 °C
EMC	DIN EN61000-6-1/2/3,	DIN EN61000-6-1/2/3,
	EN61000-4-3,	EN61000-4-3,
	EMC Directive 2004/108/EC	EMC Directive 2004/108/EC
Protection class	IP65, mounted from the	IP65, mounted from the
	front according to IEC 529	front according to IEC 529
Max. no. of satellites		Max. 20 gauges and 20 m cable
		length connected to master
Current consumption	120 mA without,	< 70 mA with illumination
	140 mA with illumination	
Data transfer		Easy Link bus uni-directional from master to satellite
Power supply	10–30 volts	

Order data

Part no.	Description	Range	Type	Dial
N02 012 920	Tachometer	0–3,000 min^{-1}	85 mm master	black
N02 012 928	Tachometer	0–3,000 min^{-1}	85 mm master	white
N02 012 922	Tachometer	0–4,000 min^{-1}	85 mm master	black
N02 012 930	Tachometer	0–4,000 min^{-1}	85 mm master	white
A2C59500012	Tachometer	0–5,000 min^{-1}	85 mm master	black
N02 140 508	Boost pressure gauge	3 bar	52 mm satellite	black
N02 311 056	Engine coolant temp gauge	120 °C	52 mm satellite	black
N02 311 060	Engine coolant temp gauge	40–120 °C / 100–250 °F	52 mm satellite	white
N02 311 552	Engine coolant temp gauge	100–250 °F	52 mm satellite	black
N02 226 210	Engine load	0–100 %	52 mm satellite	black
N02 140 156	Engine oil pressure gauge	10 bar	52 mm satellite	black
N02 140 160	Engine oil pressure gauge	0–10 bar / 145 psi	52 mm satellite	white
N02 140 512	Engine oil pressure gauge	0–150 psi	52 mm satellite	black
N02 311 054	Engine oil temp gauge	150 °C	52 mm satellite	black
N02 311 058	Engine oil temp gauge	50–150 °C / 120–300 °F	52 mm satellite	white
N02 311 542	Engine oil temp gauge	100–300 °F	52 mm satellite	black
N02 311 540	Exhaust gas temp gauge	900 °C	52 mm satellite	black
N02 311 546	Exhaust gas temp gauge	200–1,700 °F	52 mm satellite	black
N02 270 040	Fuel flow gauge	0–80 l/h	52 mm satellite	black
N02 224 080	Fuel level gauge	0–4/4	52 mm satellite	black
N02 224 082	Fuel level gauge	0–4/4	52 mm satellite	white
N02 140 154	Gearbox oil pressure gauge	25 bar	52 mm satellite	black
N02 140 158	Gearbox oil pressure gauge	0–25 bar / 0–360 psi	52 mm satellite	white
N02 140 516	Gearbox oil pressure gauge	0–360 psi	52 mm satellite	black
N02 311 536	Gearbox oil temp gauge	150 °C	52 mm satellite	black
N02 311 544	Gearbox oil temp gauge	120–300 °F	52 mm satellite	black
N02 311 554	Turbo inlet temperature A	100–900 °F	52 mm satellite	black
N02 311 548	Turbo inlet temperature A	200–1,700 °F	52 mm satellite	black
N02 311 556	Turbo inlet temperature B	100–900 °F	52 mm satellite	black
N02 311 550	Turbo inlet temperature B	200–1,700 °F	52 mm satellite	black
N02 413 066	Voltmeter	8–16 volts	52 mm satellite	black
N02 413 074	Voltmeter	8–16 volts	52 mm satellite	white
N02 413 058	Voltmeter	18–32 volts	52 mm satellite	black
N02 413 060	Voltmeter	18–32 volts	52 mm satellite	white

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Printed in Germany