



FUEL OIL METER

CONTOIL® VZD2

NEW FLOW METER CONTOIL® VZD2 WITH MODBUS PROTOCOL



Since 1928, Aquametro Oil & Marine has been among the leading manufacturers and suppliers of measurement, optimization and monitoring solutions for all kinds of fluids on ships, vehicles and industrial applications.

Our range consists of more than 100 different oil fuel meters and management systems which have been developed specially for ships, transport vehicles and other heavy machinery in different industries.

With the newly integrated Serial communication (Modbus and M-Bus) our new CONTOIL® VZD2 not only provides highly accurate measurements but also highly accurate data transmission.

The new CONTOIL® VZD2 is the ideal solution for the fuel consumption measurement on smaller engines.

It is available for all types of diesel engines and machinery like in trucks, agricultural machines, trains and boats.

The main features include:

High sampling rate of sensor, integrated temperature sensor for temperature compensation of the volume, real time clock, status LED, serial communication interface with Modbus and M-Bus protocol and similar compact design as our fuel oil meters of the VZD series, which have been successfully in use for many years.

CONTOIL®

Fuel oil meter VZD2



Fuel consumption measurement for trucks, buses, trains, construction and agricultural machinery, small boats and generators as well as for burners.

Features:

- » Supports most models of vehicles
- » Proven and tested system
- » Easy and accurate reading of engine fuel consumption

Benefits:

- » Highly accurate data transmission
- » Quick and easy installation (short down-time of vehicle)
- » Quick return on investment

Hydraulic			VZD2 4	VZD2 8	VZD2 8E
Nominal diameter	DN	mm	4	8	8
		inch	1/8	1/4	1/4
Installation length		mm	54/110 ¹⁾	70	70
Nominal pressure	PN	bar	25	25	25
Max. medium temperature	T _{max}	°C	-30 to +80	-30 to +80	-30 to +80
Maximum flow rate ²⁾	Q _{max}	l/h	80	200	600
Continuous flow rate	Q_{cont}	l/h	50	140	400
Minimum flow rate	Q _{min}	l/h	1	4	10
Approx. starting flow rate		l/h	0.4	1.6	2
Measuring chamber volume		cm ³	5	12.44	12.44
Max. permissible error of actual value		%	<±1 ³⁾	<±1 ⁴⁾	<±1
Electronic					
Environment					
Max. ambient temperature	T _{max}	°C	-20 to +60	-20 to +60	-20 to +60
Protection class	IEC60529	IP	66	66	66
Power supply					
Voltage range	U	VDC	12-24	12-24	12-24
Relay output					
Switching element			solid state relay		
Pulse width (dynamic)		ms	2 - 500	2 - 500	2 - 500
Pulse frequency		Hz	0 - 200	0 - 200	0 - 200
Serial interface					
Type	galvanically isolated 2-wire RS485				
Protocol	Modbus, M-Bus				

1) Length including adapter set VSR, part no.: 80630

2) Do not use for meter sizing.

3) 1 - 2 l/h ±2.5 %

4) 4 - 5 l/h ±2 %



You will find detailed technical data on the product range and project planning notes in our technical documentation.



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