Product Information

www.vdo.com

Viewline Freshwater Gauges 12/24 Volt

Description

Indication of Freshwater tank levels (capacitive).



Picture: Freshwater Gauge

Features

- LED Illumination
- Integrated Warning LED
- Backlit technology
- Changeable bezels
- _ Antifog and splash protection
- _ Panel and flush mount possibility



Concept

Warning LED

Housing Polycarbonat (PC)

Bezel PC (black, white) or ABS (chrome); several colors and shapes (see accessories table)

Lens PMMA; double lens

Dial backlit, different colors (black, white)

Pointer backlit, white on black dials; red on white dials

Illumination backlit

Dial: LED amber (605nm) Pointer: LED red (632nm)

red (632nm)

Mounting Spinlock Nut; locking height 0.5mm – 20mm,

Optional Studs and Bracket; locking height 2 – 15mm

Connection 8 pin MQS connector system

Sensor: VDO sensors N02-240-402, N02-240-404, N02-240-406



Technical Data				
Installation depth	50mm			
Installation diameter	52mm			
Deflection angle	90°			
Operating Voltage	10 – 32 Volt			
Accuracy	< 3.6 angular degrees at 13.0 Volt			
Current consumption	< 60 mA, incl. Warn LED	< 60 mA, incl. Warn LED		
Operating temperature	-30°C to +80°C; plated bezels (chrome) -30°C to +70°C			
Storage temperature	-30°C to +80°C for 48h; plated bezels (chrome) -30°C to +70°C			
Temperature shock	Range Transformation time Retention time	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C 10 seconds 2h		
Climatic test	Range Rel. Humidity	+25°C to +55°C 95%		
EMC in conformity with (Electromagnetic compatibility)	DIN_EN 61000-6-2 DIN_EN 61000-6-3			
Standards	CE			
Vibration	Sinus 2g; 10-500Hz; dura Noise 3g; 10-1000Hz, dura			
Mechanical shock	continuous Single shock Free fall	25g; 6ms; 1Hz 100g; 11ms 1m; 3 times		
Chemical resistance against	 preservative agent preservative agent remover cold cleaner methylated spirit interior cleaner drinks containing caffeine and tannin 			
Nominal position	NL 0 to NL 85 (DIN16257)			
Protection class	according to IEC 60529 Front: IP67 (in nominal position) Rear: IP52 (in nominal position)			
Reverse polarity protection	yes, 5 minute			
Over voltage protection	yes, 1 minute			

Available Gauges:

No. unpacked*	Dial color	Measurement range outer		Measurement range inner		ISO	Sensor resistance
		Min	Max	Min	Max	Symbol	range
A2C31401700	black	0	1/1	non	non	Water	4 - 20 mA
A2C31402000	white	0	1/1	non	non	Water	4 - 20 mA

^{* &}quot;No. unpacked" is not a order number.

Accessories:

A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm
A2C53007398	Fastening nut
A2C59510864	VL Mounting bracket flush mount
A2C53215640	VL Sealing Ring 52mm flush mount
A2C59510847	Bush housing, 8-pin
A2C53324664	Protective connector cap, 8-pin
Tyco No. 539635-1	Hand pliers
Tyco No. 539682-2	Tool for hand pliers.
Tyco No. 1355718-1	Single contacts 0.14 – 0.22 mm² tin plated
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm² tin plated
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm² tin plated
Tyco No. 928999-1	Strip 0.25 – 0.5 mm² tin plated
Tyco No. 963715-1	Strip 0.5 – 0.75 mm² tin plated

Bezels 52mm

	Black	Chrome	White
Flat	A2C53186040	A2C53186023	A2C53186022
Round	A2C53186027	A2C53186029	A2C53186028
Triangle	A2C53186024	A2C53186026	A2C53186025