

## Viewline Level Gauges 12/24 Volt

### Description

Indication of Fuel-, Freshwater- (Resistor Type) Tank levels.

### Features

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














Picture: Fuel Level Gauge

### Concept

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)
Warning LED	red (632nm)
Mounting	Spinlock Nut; locking height 0.5mm – 20mm, Optional Studs and Bracket; locking height 2 – 15mm
Connection	8 pin MQS connector system

Technical Data		
Installation depth	50mm	
Installation diameter	52mm	
Deflection angle	90°	
Operating Voltage	10 – 32 Volt	
Accuracy	< 3.6 angular degrees	
Current consumption	< 140 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	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C
	Transformation time	10 seconds
	Retention time	2h
Climatic test	Range	+25°C to +55°C
	Rel. Humidity	95%
EMC in conformity with (Electromagnetic compatibility)	DIN_EN 61000-6-2 DIN_EN 61000-6-3	
Standards	EN 60945 (under preparation) GL, Category C, F (under preparation) CE ECE-R10	
Vibration	Sinus 2g; 10-500Hz; duration 16h Noise 3g; 10-1000Hz, duration 8h	
Mechanical shock	continuous	25g; 6ms; 1Hz
	Single shock	100g; 11ms
	Free fall	1m; 3 times
Chemical resistance against	<ul style="list-style-type: none"> <li>- preservative agent</li> <li>- preservative agent remover</li> <li>- cold cleaner</li> <li>- methylated spirit</li> <li>- interior cleaner</li> <li>- drinks containing caffeine and tannin</li> </ul>	
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 Symbol	Sensor resistance range	Sensor type
		Min	Max	Min	Max			
A2C53412986	black	0	1/1	non	non		90 - 4 Ohm	DT A
A2C53412985	black	0	1/1	non	non		3 - 180 Ohm	LT EU
A2C53418136	black	0	1/1	non	non	WATER	3 - 180 Ohm	LT EU
A2C53412989	black	E	F	non	non		0 - 90 Ohm	090
A2C53412990	black	E	F	non	non		90 - 4 Ohm	DT A
A2C53412987	black	E	F	non	non		3 - 180 Ohm	LT EU
A2C53418137	black	E	F	non	non	WATER	3 - 180 Ohm	LT EU
A2C53412988	black	E	F	non	non		240 – 33.5 Ohm	LT US
A2C53412992	white	0	1/1	non	non		90 - 4 Ohm	DT A
A2C53412991	white	0	1/1	non	non		3 - 180 Ohm	LT EU
A2C53418381	white	0	1/1	non	non	WATER	3 - 180 Ohm	LT EU
A2C53412994	white	E	F	non	non		0 - 90 Ohm	090
A2C53412995	white	E	F	non	non		90 - 4 Ohm	DT A
A2C53418382	white	E	F	non	non	WATER	3 - 180 Ohm	LT EU
A2C53412993	white	E	F	non	non		240 – 33.5 Ohm	LT US

\* "No. unpacked" is not a order number.

LT EU Lever type european ohmic values

LT US Lever type US ohmic values

DT A Dip type, adjustable

**Accessories:**

A2C59510886	VL Make point switch 12V
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 mm <sup>2</sup> tin plated
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm <sup>2</sup> tin plated
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm <sup>2</sup> tin plated
Tyco No. 928999-1	Strip 0.25 – 0.5 mm <sup>2</sup> tin plated
Tyco No. 963715-1	Strip 0.5 – 0.75 mm <sup>2</sup> tin plated

**Bezels 52mm**

	<b>Black</b>	<b>Chrome</b>	<b>White</b>
<b>Flat</b>	A2C53186040	A2C53186023	A2C53186022
<b>Round</b>	A2C53186027	A2C53186029	A2C53186028
<b>Triangle</b>	A2C53186024	A2C53186026	A2C53186025