

## Viewline 4 in One

### Description

Indication of Fuel level, Coolant temperature, Engine oil pressure and Battery power.

### Features

- \_ LED illumination
- \_ 5 Integrated Warning-LEDs
- \_ Backlight technology
- \_ Changeable bezels
- \_ Antifog and splash protection
- \_ Panel und flush mounting possible



Picture: 4 in One

### Concept

Housing	Polycarbonate (PC)
Bezel	PC (black, white) or ABS (chrome); several colors and shapes (see accessories)
Lens	PMMA; double lens
Dial	different colors (black, white)
Pointer	backlit, white on black dials; red on white dials
Illumination	Backlight 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	8/14 pin MQS connector system





Technical Data		
Installation depth	50mm	
Installation diameter	110mm	
Deflection angle	4 x 90°	
Operating Voltage	10 – 16 Volt	
Accuracy	< 3.6 angular degrees	
Current consumption	< 175 mA, including Warning LED	
Operating temperature	-30°C to +80°C; plated bezels (chrome) -30°C to +70°C	
Storage temperature	-40°C to +80°C for 48h; plated bezels (chrome) -40°C to +70°C +90°C for 1h	
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	EN 60945 (under preparation) GL, Category C, F (under preparation) CE	
Vibration	Sinus 2g; 10-500Hz; duration 16h Noise 3g; 10-1000Hz, duration 8h	
Mechanical shock	continuous Single shock Free fall	25g; 6ms; 1Hz 100g; 11ms 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	Double Scale	Version	Warn LEDs	Voltage	Double lens
A2C53371945	black	no	1	yes	12 Volt	yes
A2C53371957	black	no	2	no	12 Volt	yes
A2C53371946	white	no	1	yes	12 Volt	yes
A2C53371958	white	no	2	no	12 Volt	yes

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

**Version 1**

Position	Function	Measurement range	ISO Symbol	Sensor
top left	Engine oil pressure	0 – 5 bar		10 – 184 Ohm
top right	Coolant temperature	40 – 120 °C		287.4 – 22.7 Ohm
bottom right	Battery power	8 – 16 V		-
bottom left	Fuel level	0 – 1/1		3 – 180 Ohm

**Version 2**

Position	Function	Measurement range	ISO Symbol	Sensor
top left	Engine oil pressure	L - H		240 – 33.5 Ohm
top right	Coolant temperature	C - H		362 – 28.5 Ohm
bottom right	Battery power	8 – 16 V		-
bottom left	Fuel level	E - F		240 – 33.5 Ohm

**Accessories:**

A2C59510886	VL Make point switch 12V
A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm
A2C59510864	VL Mounting bracket flush mount
A2C53215642	VL Sealing Ring 110mm flush mount
A2C59510847	Bush housing, 8-pin
A2C59510848	Bush housing, 14-pin
A2C53324664	Protective connector cap, 8-pin
A2C53324671	Protective connector cap, 14-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 110mm**

	Black	Chrome	White
<b>Flat</b>	A2C53210745	A2C53210747	A2C53210746
<b>Round</b>	A2C53210749	A2C53210761	A2C53210764
<b>Triangle</b>	A2C53210763	A2C53210765	A2C53192920