

## Viewline Temperature gauges

### Description

Gauge to indicate Coolant-, Engine oil-, Air- and Exhaust temperature.

### Features

- \_ Integrated Warning LED.
- \_ Changeable Frontbezels.
- \_ LED Illumination
- \_ Flush mount possibility
- \_ High reliability



Picture: Coolant temperature gauge

















### Concept























Housing	PC; flame retarding (UL94)
Bezel	PC or ABS; several colors and shapes (see table)
Lens	PMMA; double lens
Dial	backlit; different colors (see table)
Pointer	backlit, white on black dials; red on white dials
Illumination	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° (Pyrometer, Outside temperature gauge 240°)	
Operating Voltage	10 – 16 Volt (Pyrometer, Outside temperature gauge 10 – 30V)	
Accuracy	< 3,6 angular degrees (Pyrometer, Outside temperature gauge +/- 2,5% of full scale)	
Current consumption	< 140 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	-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	DIN_EN 61000-6-3 DIN_EN 61000-6-1 DIN_EN 61000-6-4 DIN_EN 61000-6-2	
Standards	EN 60945	
	GL, Category C, F (under preparation)	
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-	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, 24V for1 minute	

## available Gauges:

No. packed	No. unpacked	color	Double Scale	Measurement range	ISO Symbol	Voltage	Sensor type	Double lens
A2C59510008	A2C53210910	black	no	900°C		12+24	37mV	NO
A2C59510009	A2C53210908	white	no	900°C		12+24	37mV	NO
A2C59510010	A2C53210906	black	no	1650°F		12+24	37mV	NO
A2C59510011	A2C53210904	white	no	1650°F		12+24	37mV	NO
A2C59510012	A2C53210838	black	no	+50°C	non	12+24	2kOhm	NO
A2C59510013	A2C53210846	black	no	+120°F	non	12+24	2kOhm	NO
A2C59510014	A2C53210835	white	no	+50°C	non	12+24	2kOhm	NO
A2C59510015	A2C53210842	white	no	+120°F	non	12+24	2kOhm	NO
A2C59510026	A2C53210911	black	no	900°C		12+24	37mV	YES
A2C59510027	A2C53210909	white	no	900°C		12+24	37mV	YES
A2C59510028	A2C53210907	black	no	1650°F		12+24	37mV	YES
A2C59510029	A2C53210905	white	no	1650°F		12+24	37mV	YES
A2C59510030	A2C53210839	black	no	+50°C	non	12+24	2kOhm	YES
A2C59510031	A2C53210847	black	no	+120°F	non	12+24	2kOhm	YES
A2C59510032	A2C53210836	white	no	+50°C	non	12+24	2kOhm	YES
A2C59510033	A2C53210844	white	no	+120°F	non	12+24	2kOhm	YES
A2C60100101	A2C53191351	black	no	100°C		12V	EU	NO
A2C60100102	A2C53191352	black	no	120°C		12V	EU	NO
A2C60100103	A2C53191353	black	no	120°C		12V	EU	NO
A2C60100104	A2C53191354	black	no	120°C		12V	EU	NO
A2C60100105	A2C53191355	black	no	150°C		12V	EU	NO
A2C60100106	A2C53191356	black	no	150°C		12V	EU	NO
A2C60100107	A2C53191357	black	no	150°C		12V	EU	NO
A2C60100108	A2C53191358	black	no	200°C	non	12V	US	NO
A2C60100109	A2C53191359	black	no	240°F		12V	US	NO

A2C60100110	A2C53191360	black	no	250°F		12V	EU	NO
A2C60100111	A2C53191361	black	no	300°F		12V	EU	NO
A2C60100112	A2C53191362	black	no	400°F		12V	EU	NO
A2C60100113	A2C53191363	black	yes	120°C		12V	EU	NO
A2C60100114	A2C53191364	black	yes	150°C		12V	EU	NO
A2C60100115	A2C53191365	black	yes	250°F		12V	EU	NO
A2C60100116	A2C53191366	black	yes	300°F		12V	EU	NO
A2C60100117	A2C53191367	white	no	120°C		12V	EU	NO
A2C60100118	A2C53191368	white	no	150°C		12V	EU	NO
A2C60100119	A2C53191369	white	no	240°F	WATER	12V	US	NO
A2C60100120	A2C53191370	white	no	250°F		12V	EU	NO
A2C60100121	A2C53191371	white	no	300°F		12V	EU	NO
A2C60100122	A2C53191372	white	yes	120°C		12V	EU	NO
A2C60100123	A2C53191373	white	yes	150°C		12V	EU	NO
A2C60100124	A2C53191374	white	yes	250°F		12V	EU	NO
A2C60100125	A2C53191375	white	yes	300°F		12V	EU	NO
A2C60100301	A2C53191720	black	yes	120°C		12V	EU	YES
A2C60100302	A2C53191721	black	yes	150°C		12V	EU	YES
A2C60100303	A2C53191722	black	yes	250°F		12V	EU	YES
A2C60100304	A2C53191723	black	yes	300°F		12V	EU	YES
A2C60100305	A2C53191724	white	yes	120°C		12V	EU	YES
A2C60100306	A2C53191725	white	yes	150°C		12V	EU	YES
A2C60100307	A2C53191726	white	yes	250°F		12V	EU	YES
A2C60100308	A2C53191727	white	yes	300°F		12V	EU	YES

**Accessories:**

A2C59510221	VL Dropping resistor 24V without connector
A2C59510886	VL Make point switch 12V
A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm
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>black nickel*</b>	<b>brush aluminum*</b>	<b>chrome</b>	<b>gold*</b>	<b>white</b>
flat	A2C53186040	A2C53293468	A2C53293480	A2C53186023	A2C53293482	A2C53186022
round	A2C53186027	A2C53293494	A2C53293495	A2C53186029	A2C53293496	A2C53186028
triangle	A2C53186024	A2C53293545	A2C53293546	A2C53186026	A2C53293548	A2C53186025

\* Only on request, no part off standard portfolio