

Product Information

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Viewline Pressure Gauges 12/24 Volt

Description

Gauge to indicate Engine oil-, Hydraulic oil-, Brake-, Air pressure.

Features

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



Picture: Engine Oil Pressure 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 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 ECE-R10	
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	- 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 Symbol	Sensor resistance range
		Min	Max	Min	Max		
A2C53412997	black	0 bar	10 bar	none	none		10 - 184 Ohm
A2C53417175	black	0 bar	10 bar	none	none		10 - 184 Ohm
A2C53413313	black	0 bar	10 bar	0 psi	150 psi		10 - 184 Ohm
A2C53413005	black	0 kPa	10 kPa x100	none	none		10 - 184 Ohm
A2C53413001	black	0 psi	100 psi	none	none	none	none
A2C53413147	black	0 psi	100 psi	0 kPa	7 kPa	Engine Oil	10 - 184 Ohm
A2C53413000	black	0 psi	100 psi	none	none		240 – 33.5 Ohm
A2C53413154	black	0 psi	100 psi	0 bar	7 bar		240 – 33.5 ohm
A2C53413003	black	0 psi	150 psi	none	none		10 - 184 Ohm
A2C53413141	black	0 psi	150 psi	0 bar	10 bar	Engine Oil	10 - 184 Ohm
A2C53416883	black	0 psi	150 psi	0 kPa	10 kPa	Air	10 - 184 Ohm
A2C53417216	black	0 psi	150 psi	0 kPa	10 kPa		10 - 184 Ohm
A2C53413157	black	0 psi	150 psi	0 bar	10 bar		10 - 184 Ohm
A2C53413002	black	0 psi	150 psi	none	none		240 – 33.5 Ohm
A2C53413156	black	0 psi	150 psi	0 bar	10 bar		240 – 33.5 Ohm
A2C53417174	black	0 bar	2 bar	none	none		10 - 184 Ohm
A2C53417219	black	0 bar	2 bar	0 psi	30 psi		10 - 184 Ohm
A2C53417176	black	0 bar	25 bar	none	none		10 - 184 Ohm
A2C53417220	black	0 bar	25 bar	0 psi	350 psi		10 - 184 Ohm
A2C53417210	black	0 kPa	25 kPa x100	none	none		10 - 184 Ohm
A2C53417221	black	0 bar	30 bar	0 psi	435 psi		10 - 184 Ohm
A2C53417177	black	0 psi	30 psi	none	none		10 - 184 Ohm
A2C53417217	black	0 psi	350 psi	0 kPa	25 kPa		10 - 184 Ohm
A2C53417178	black	0 psi	400 psi	none	none	TRANS	10 - 184 Ohm

No. unpacked *	Dial color	Measurement range outer		Measurement range inner		ISO Symbol	Sensor resistance range
		Min	Max	Min	Max		
A2C53417179	black	0 psi	400 psi	none	none		10 - 184 Ohm
A2C53417222	black	0 psi	400 psi	0 bar	25 bar		10 - 184 Ohm
A2C53412996	black	0 bar	5 bar	none	none		10 - 184 Ohm
A2C53413150	black	0 bar	5 bar	0 psi	80 psi		10 - 184 Ohm
A2C53413004	black	0 kPa	5 kPa x100	none	none		10 - 184 Ohm
A2C53412998	black	0 psi	80 psi	none	none		10 - 184 Ohm
A2C53413142	black	0 psi	80 psi	0 kPa	5 kPa	Engine Oil	10 - 184 Ohm
A2C53413151	black	0 psi	80 psi	0 bar	5 bar		10 - 184 Ohm
A2C53412999	black	0 psi	80 psi	none	none		240 – 33.5 Ohm
A2C53413006	black	0 psi	80 psi	0 bar	5 bar		240 – 33.5 Ohm
A2C53413144	black	0 psi	80 psi	0 kPa	5 kPa	Engine Oil	240 – 33.5 Ohm
A2C53413008	white	0 bar	10 bar	none	none		10 - 184 Ohm
A2C53417211	white	0 bar	10 bar	none	none		10 - 184 Ohm
A2C53413160	white	0 bar	10 bar	0 psi	150 psi		10 - 184 Ohm
A2C53413137	white	0 psi	100 psi	none	none	OIL	10 - 184 Ohm
A2C53413310	white	0 psi	100 psi	0 bar	7 bar		240 – 33.5 ohm
A2C53417214	white	0 psi	150 psi	none	none	none	10 - 184 Ohm
A2C53413312	white	0 psi	150 psi	0 bar	10 bar		10 - 184 Ohm
A2C53413311	white	0 psi	150 psi	0 bar	10 bar		240 – 33.5 Ohm
A2C53417223	white	0 bar	2 bar	none	none		10 - 184 Ohm
A2C53417224	white	0 bar	2 bar	0 psi	30 psi		10 - 184 Ohm
A2C53417212	white	0 bar	25 bar	none	none		10 - 184 Ohm
A2C53413286	white	0 bar	25 bar	0 psi	350 psi		10 - 184 Ohm
A2C53413287	white	0 bar	30 bar	0 psi	435 psi		10 - 184 Ohm
A2C53413134	white	0 psi	30 psi	none	none	OIL	10 - 184 Ohm

No. unpacked *	Dial color	Measurement range outer		Measurement range inner		ISO Symbol	Sensor resistance range
		Min	Max	Min	Max		
A2C53417215	white	0 psi	350 psi	none	none		10 - 184 Ohm
A2C53417225	white	0 psi	350 psi	0 bar	25 bar		10 - 184 Ohm
A2C53417226	white	0 psi	400 psi	0 bar	25 bar		10 - 184 Ohm
A2C53413007	white	0 bar	5 bar	none	none		10 - 184 Ohm
A2C53413158	white	0 bar	5 bar	0 psi	80 psi		10 - 184 Ohm
A2C53417213	white	0 psi	80 psi	none	none		10 - 184 Ohm
A2C53413136	white	0 psi	80 psi	none	none		10 - 184 Ohm
A2C53413289	white	0 psi	80 psi	0 bar	5 bar		10 - 184 Ohm
A2C53413288	white	0 psi	80 psi	0 bar	5 bar		240 – 33.5 Ohm

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

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 ² tin plated
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm ² tin plated
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm ² tin plated
Tyco No. 928999-1	Strip 0.25 – 0.5 mm ² tin plated
Tyco No. 963715-1	Strip 0.5 – 0.75 mm ² tin plated

Bezels 52mm

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

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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°	
Operating Voltage	10 – 16 Volt	
Accuracy	< 3.6 angular degrees	
Current consumption	< 140 mA, including Warning 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) -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	
Standards	EN 60945 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	- 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	Double Scale	Measurement range	ISO Symbol	Sensor	Voltage	Double lens
Pressure							
A2C53191386	black	no	0 to 100 psi	none	10 – 184 Ohm	12 Volt	no
A2C53191422	white	no	0 to 150 psi	none	10 – 184 Ohm	12 Volt	no
Oil Pressure							
A2C53191378	black	no	0 to 5 bar		10 – 184 Ohm	12 Volt	no
A2C53191379	black	no	0 to 10 bar		10 – 184 Ohm	12 Volt	no
A2C53191383	black	no	0 to 80 psi		10 – 184 Ohm	12 Volt	no
A2C53191384	black	no	0 to 80 psi		240 – 33.5 Ohm	12 Volt	no
A2C53191385	black	no	0 to 100 psi		240 – 33.5 Ohm	12 Volt	no
A2C53191387	black	no	0 to 150 psi		240 – 33.5 Ohm	12 Volt	no
A2C53191388	black	no	0 to 150 psi		10 – 184 Ohm	12 Volt	no
A2C53191391	black	no	0 to 5 kPa x100		10 – 184 Ohm	12 Volt	no
A2C53191392	black	no	0 to 10 kPa x100		10 – 184 Ohm	12 Volt	no
A2C53191395	black	yes	0 to 5 bar 0 to 80 psi		10 – 184 Ohm	12 Volt	no
A2C53191397	black	yes	0 to 10 bar 0 to 150 psi		10 – 184 Ohm	12 Volt	no
A2C53191402	black	yes	0 to 80 psi 0 to 5 bar		240 – 33.5 Ohm	12 Volt	no
A2C53191403	black	yes	0 to 80 psi 0 to 5 bar		10 – 184 Ohm	12 Volt	no
A2C53191404	black	yes	0 to 100 psi 0 to 7 bar		240 – 33.5 Ohm	12 Volt	no
A2C53191406	black	yes	0 to 150 psi 0 to 10 bar		240 – 33.5 Ohm	12 Volt	no
A2C53191407	black	yes	0 to 150 psi 0 to 10 bar		10 – 184 Ohm	12 Volt	no
A2C53191411	white	no	0 to 5 bar		10 – 184 Ohm	12 Volt	no
A2C53191413	white	no	0 to 10 bar		10 – 184 Ohm	12 Volt	no
A2C53191417	white	no	0 to 30 psi	OIL	10 – 184 Ohm	12 Volt	no
A2C53191419	white	no	0 to 80 psi		10 – 184 Ohm	12 Volt	no
A2C53191420	white	no	0 to 100 psi	OIL	10 – 184 Ohm	12 Volt	no
A2C53191426	white	yes	0 to 5 bar 0 to 80 psi		10 – 184 Ohm	12 Volt	no
A2C53191427	white	yes	0 to 10 bar 0 to 150 psi		10 – 184 Ohm	12 Volt	no
A2C53191428	white	yes	0 to 25 bar 0 to 350 psi		10 – 184 Ohm	12 Volt	no
A2C53191430	white	yes	0 to 30 bar 0 to 435 psi		10 – 184 Ohm	12 Volt	no
A2C53191431	white	yes	0 to 80 psi 0 to 5 bar		240 – 33.5 Ohm	12 Volt	no

No. unpacked *	Dial color	Double Scale	Measurement range	ISO Symbol	Sensor	Voltage	Double lens
A2C53191432	white	yes	0 to 80 psi 0 to 5 bar		10 – 184 Ohm	12 Volt	no
A2C53191433	white	yes	0 to 100 psi 0 to 7 bar		240 – 33.5 Ohm	12 Volt	no
A2C53191434	white	yes	0 to 150 psi 0 to 10 bar		240 – 33.5 Ohm	12 Volt	no
A2C53191436	white	yes	0 to 150 psi 0 to 10 bar		10 – 184 Ohm	12 Volt	no
A2C53191440	black	yes	0 to 150 psi 0 to 10 bar	Engine Oil	10 – 184 Ohm	12 Volt	no
A2C53191441	black	yes	0 to 80 psi 0 to 5 kpa	Engine Oil	10 – 184 Ohm	12 Volt	no
A2C53191443	black	yes	0 to 80 psi 0 to 5 kpa	Engine Oil	240 – 33.5 Ohm	12 Volt	no
A2C53191444	black	yes	0 to 100 psi 0 to 7 kpa	Engine Oil	10 – 184 Ohm	12 Volt	no
A2C53191729	black	yes	0 to 5 bar 0 to 80 psi		10 – 184 Ohm	12 Volt	yes
A2C53191730	black	yes	0 to 10 bar 0 to 150 psi		10 – 184 Ohm	12 Volt	yes
A2C53191733	black	yes	0 to 80 psi 0 to 5 bar		10 – 184 Ohm	12 Volt	yes
A2C53191734	black	yes	0 to 100 psi 0 to 7 bar		240 – 33.5 Ohm	12 Volt	yes
A2C53191735	black	yes	0 to 150 psi 0 to 10 bar		240 – 33.5 Ohm	12 Volt	yes
A2C53191736	black	yes	0 to 150 psi 0 to 10 bar		10 – 184 Ohm	12 Volt	yes
A2C53191740	white	yes	0 to 5 bar 0 to 80 psi		10 – 184 Ohm	12 Volt	yes
A2C53191741	white	yes	0 to 10 bar 0 to 150 psi		10 – 184 Ohm	12 Volt	yes
A2C53191742	white	yes	0 to 25 bar 0 to 350 psi		10 – 184 Ohm	12 Volt	yes
A2C53191743	white	yes	0 to 30 bar 0 to 435 psi		10 – 184 Ohm	12 Volt	yes
A2C53191744	white	yes	0 to 80 psi 0 to 5 bar		240 – 33.5 Ohm	12 Volt	yes
A2C53191745	white	yes	0 to 80 psi 0 to 5 bar		10 – 184 Ohm	12 Volt	yes
A2C53191746	white	yes	0 to 100 psi 0 to 7 bar		240 – 33.5 Ohm	12 Volt	yes
A2C53191747	white	yes	0 to 150 psi 0 to 10 bar		240 – 33.5 Ohm	12 Volt	yes
A2C53191748	white	yes	0 to 150 psi 0 to 10 bar		10 – 184 Ohm	12 Volt	yes
Brake Pressure							
A2C53191380	black	no	0 to 10 bar		10 – 184 Ohm	12 Volt	no
A2C53191415	white	no	0 to 10 bar		10 – 184 Ohm	12 Volt	no
A2C53191446	black	yes	0 to 150 psi 0 to 10 kpa		10 – 184 Ohm	12 Volt	no

No. unpacked *	Dial color	Double Scale	Measurement range	ISO Symbol	Sensor	Voltage	Double lens
Air Pressure							
A2C53191445	black	yes	0 to 150 psi 0 to 10 kpa	Air	10 – 184 Ohm	12 Volt	no
Gear Pressure							
A2C53191381	black	no	0 to 25 bar		10 – 184 Ohm	12 Volt	no
A2C53191389	black	no	0 to 400 psi	TRANS	10 – 184 Ohm	12 Volt	no
A2C53191390	black	no	0 to 400 psi		10 – 184 Ohm	12 Volt	no
A2C53191393	black	no	0 to 25 kPa x100		10 – 184 Ohm	12 Volt	no
A2C53191400	black	yes	0 to 25 bar 0 to 350 psi		10 – 184 Ohm	12 Volt	no
A2C53191401	black	yes	0 to 30 bar 0 to 435 psi		10 – 184 Ohm	12 Volt	no
A2C53191408	black	yes	0 to 400 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	no
A2C53191416	white	no	0 to 25 bar		10 – 184 Ohm	12 Volt	no
A2C53191423	white	no	0 to 350 psi		10 – 184 Ohm	12 Volt	no
A2C53191437	white	yes	0 to 350 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	no
A2C53191438	white	yes	0 to 400 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	no
A2C53191447	black	yes	0 to 350 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	no
A2C53191731	black	yes	0 to 25 bar 0 to 350 psi		10 – 184 Ohm	12 Volt	yes
A2C53191732	black	yes	0 to 30 bar 0 to 435 psi		10 – 184 Ohm	12 Volt	yes
A2C53191737	black	yes	0 to 400 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	yes
A2C53191749	white	yes	0 to 350 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	yes
A2C53191750	white	yes	0 to 400 psi 0 to 25 bar		10 – 184 Ohm	12 Volt	yes
Turbo Pressure							
A2C53191377	black	no	0 to 2 bar		10 – 184 Ohm	12 Volt	no
A2C53191382	black	no	0 to 30 psi		10 – 184 Ohm	12 Volt	no
A2C53191394	black	yes	0 to 2 bar 0 to 30 psi		10 – 184 Ohm	12 Volt	no
A2C53191410	white	no	0 to 2 bar		10 – 184 Ohm	12 Volt	no
A2C53191418	white	no	0 to 80 psi		10 – 184 Ohm	12 Volt	no
A2C53191425	white	yes	0 to 2 bar 0 to 30 psi		10 – 184 Ohm	12 Volt	no
A2C53191728	black	yes	0 to 2 bar 0 to 30 psi		10 – 184 Ohm	12 Volt	yes
A2C53191738	white	no	0 to 2 bar		10 – 184 Ohm	12 Volt	yes
A2C53191739	white	yes	0 to 2 bar 0 to 30 psi		10 – 184 Ohm	12 Volt	yes

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

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 ² tin plated
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm ² tin plated
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm ² tin plated
Tyco No. 928999-1	Strip 0.25 – 0.5 mm ² tin plated
Tyco No. 963715-1	Strip 0.5 – 0.75 mm ² tin plated

Bezels 52mm

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