



# SingleViu®

## Product Data sheet

# SingleViu®

## 1. Technical data

### 1.1 Transportation and storage

Transport and store the device always in its packaging. Handle with care.

The allowed storage Temperature range is -40 °C to +85 °C (-40 °F to +185 °F), recommendation is storage at room temperature. Protect from dust and moisture as the device will be tight only with the connectors assembled.

### 1.2 Device dimensions

Mounting hole diameter	52 mm	80/85 mm	100 mm
Device diameter	56 mm	90 mm	105 mm
Device depth	76 mm	80 mm	80 mm
Mounting depth incl. connector	110 mm	110 mm	110 mm
Weight	78 g	100 g	120 g

### 1.3 Environmental and electrical durability

Operating Temperaturee range	-40 °C to +80 °C (-40 °F to +176 °F) Display: -20 °C to +80 °C (-4 °F to +176 °F)	
Storage Temperaturee range	-40 °C to +85 °C (-40 °F to +185 °F)	
Protection class	IP 67	
Chemical durability	- ammonia based cleaner - methylated spirits - interior cleaner - drinks containing caffeine and tannin (coffee, tea and cola)	
Mechanical shocks	Continuous	25 g; 6 ms
	Single	100 g; 11 ms
	Free fall	1 m
Vibration	Periodic	2 g; 8 - 500 Hz
	Stochastic	4.2 g; 10 - 1000 Hz
Temperaturee shock	Range	-40 °C to +85 °C
	Transformation time	10 seconds
	Retention time	2 h
Climatic storage	Range	+25 °C to +55 °C
	Rel. humidity	80% to 100%
Salt spray test	5% NaCl, 672 h	
EMC	DIN_EN 61000-6-2	
	DIN_EN 61000-6-3	
	DIN_EN 61000-6-4	
Inverse-polarity protection	yes	

### 1.4 Functionality

Nominal voltage	12 V <sub>DC</sub> or 24 V <sub>DC</sub>	
Operation voltage range	8 V <sub>DC</sub> to 32 V <sub>DC</sub>	
Current consumption	< 200 mA	
Quiescent current	< 3 mA	
Pointer indication angle	240°	
Pointer tolerance	-3° to +3°, Speedometer 0° to 6°	
Illumination	of the pointer	red
	of the dial	RGB, default white
	of the display	RGB, default white

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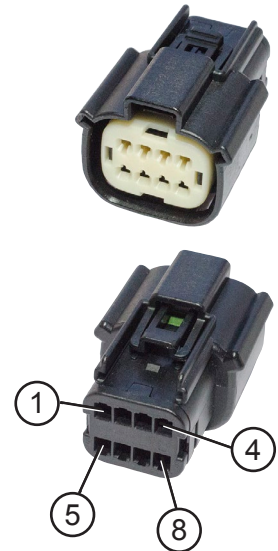
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## 1.4.1 Pin description

### 1.4.1.1 Molex 8-pin connector

Every *SingleViu* gauge contains a contact for a connector MOLEX 334720801 with 8 pins.

Pin	Description	Remark
1	Terminal 30	Battery Plus (12/24 V <sub>DC</sub> )
2	Terminal 31	Battery Minus (Ground)
3	Sensor ground	
4	Terminal 15	Ignition (12/24 V <sub>DC</sub> )
5	Sensor input	
6	Terminal 58	Illumination (12/24 V <sub>DC</sub> )
7	CAN High	Input for CAN Bus SAE J1939
8	CAN Low	Input for CAN-Bus SAE J1939



#### Pin 1: Power Supply (Terminal 30)

$U_{Bat} = +8 V_{DC}$  to  $+32,5 V_{DC}$

The instrument is supplied with permanent power through this terminal. Current consumption is less than 200 mA in operation mode and less than 3 mA quiescent current. After an over- or undervoltage event, restart will be debounced by 0.5 Volt.

#### Pin 2: Ground (Terminal 31)

Ground connection for the instrument's power supply.

#### Pin 3: Sensor ground

Ground reference for the analog sensor input, see Pin 5.

#### Pin 4: Ignition (Terminal 15)

Range: 0 V to  $U_{Bat}$ . Switch on at  $>4 V_{DC}$ , switch off at  $<2.5 V_{DC}$ , debouncing time of 200 ms.

Wake over CAN is also possible.

#### Pin 5: Sensor input

Sensor input depends on gauge variant with its analog input.

- a) Resistive input  
Range: 0 to 1000 Ohm
- b) Voltage input  
Range: 0 to 5 Volts
- c) Frequency input  
 $U_{low} < 0.2V$ ,  $U_{high} \geq 1V$ . Frequency is up to 20k

#### Pin 6: Illumination (Terminal 58)

Range: 0 V to  $U_{Bat}$ . Switch on at  $>4 V_{DC}$ , switch off at  $<2.5 V_{DC}$ , debouncing time of 200 ms.

#### Pin 7: CAN High

Contact pin for CAN High according to ISO 11898 without termination resistance. *SingleViu* is capable for use with SAE J1939.

#### Pin 8: CAN Low

Contact pin for CAN Low according to ISO 11898 without termination resistance. *SingleViu* is capable for use with SAE J1939.

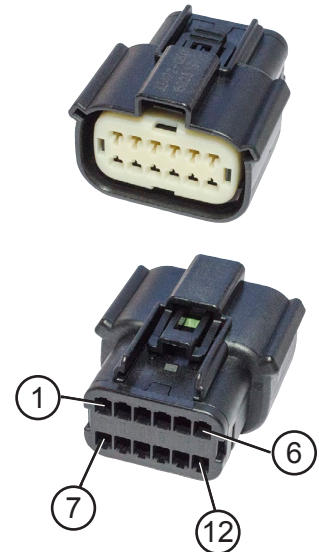
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**1.4.1.2 Molex 12-pin connector**

SingleViu gauges with diameter of 80 and 100 mm contain an additional contact for a connector MOLEX 334721201 with 12 pins.

Pin	Description	Remark
1	CAN high	Opt. input for CAN-Bus SAE J1939
2	CAN low	Opt. Input for CAN-Bus SAE J1939
3	Termination resistance 1	CAN termination resistance 120 Ohm
4	Termination resistance 2	CAN termination resistance 120 Ohm
5	Digital input 1	Control of tell-tale 1
6	Digital input 2	Control of tell-tale 2
7	Digital input 3	Control of tell-tale 3
8	Digital input 4	Control of tell-tale 4
9	Digital input 5	Control of tell-tale 5
10	Digital input 6	Connection for external push-button
11	Digital input 1	Connection for external buzzer
12	Digitaleingang 7	Configuration pin


**Pin 1: CAN High**

Optional contact pin for CAN High according to ISO 11898 without termination resistance. It can also be used for loop-through of the CAN bus.

**Pin 2: CAN Low**

Optional contact pin for CAN Low according to ISO 11898 without termination resistance. It can also be used for loop-through of the CAN bus.

**Pin 3: Termination resistance 1**

Optional termination resistance pin according to ISO 11898 without logical connection.

**Pin 4: Termination resistance 2**

Optional termination resistance pin according to ISO 11898 without logical connection.

**Pin 5: Digital input 1**

Range: 0 V to  $U_{Bat}$ . Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms. Control option for tell-tale 1 which is the hazard lamp, see chapter 3.3.2. Input is set to high-active by default.

**Pin 6: Digital input 2**

Range: 0 V to  $U_{Bat}$ . Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms. Control option for tell-tale 2 which is the malfunction indicator lamp, see chapter 3.3.2. Input is set to high-active by default.

**Pin 7: Digital input 3**

Range: 0 V to  $U_{Bat}$ . Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms. Control option for tell-tale 3 which is the red stop lamp, see chapter 3.3.2. Input is set to high-active by default.

**Pin 8: Digital input 4**

Range: 0 V to  $U_{Bat}$ . Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms. Control option for tell-tale 4 which is unused by default, see chapter 3.3.2. Input is set to high-active by default.

**Pin 9: Digital input 5**

Range: 0 V to  $U_{Bat}$ . Switch on at >4 VDC, switch off at <2.5 VDC, debouncing time of 200 ms. Control option for tell-tale 5 which is unused by default, see chapter 3.3.2. Input is set to high-active by default.

**Pin 10: Digital input 6**

Connection pin for an optional external switch, e.g. push button. The pin is low-active which requires the switch to be connected between ground and this pin.

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**Pin 11: Digital output 1**

Connection pin for an optional external device, e.g. buzzer or additional warning lamp. The output is an open drain and acts like a low switch to ground.

Maximum voltage: 5 Volt

Maximum current: 500 mA

By default, the pin is disabled. Linking of the pin to the tell-tales can be done using the PC tool, see chapter 5.1.

**Pin 12: Digital input 7**

Range: 0 V to  $U_{Bat}$ . Switch on at  $>4$  VDC, switch off at  $<2.5$  VDC, debouncing time of 200 ms.

This configuration pin can be used to enter an extended configuration menu, see chapter 5.2.

**1.4.2 Tell-tales**
**3.4.2.1 Tell-tale in gauges with diameter 52 mm**

Gauges with diameter 52 mm – except level gauges – contain a tell-tale, symbol 0434A acc. to ISO 7000 with red illumination.

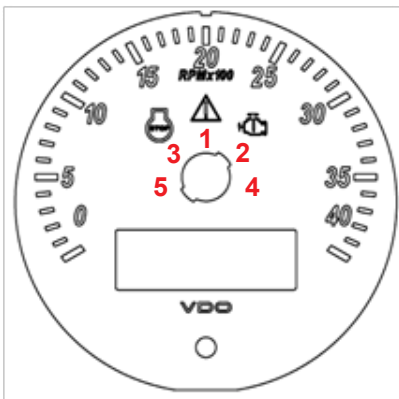
For level gauges the symbol 0245 according to ISO 7000 with yellow illumination is used.

Per default, the tell-tale will be activated for indication values beyond the scale limits. For level gauges, the lower activation threshold is at a level of 10% and for the tachometer A2C38330300 at a rotational speed of 400 RPM.

Changes of the thresholds are possible using the *ConfigTool*, refer to chapter 5.1

**1.4.2.2 Tell-tales in gauges with diameter 80 or 100 mm**

*SingleViu* gauges with diameter 80 or 100 mm can be equipped with up to 5 tell-tales. Their positions on the dial are shown in following picture.



Tell-tale 1 shows a warning triangle, symbol 0434A according to ISO 7000, with red illumination. This tell-tale can be activated by pin 5 of the 12-pin connector or by indication values beyond the scale limits.

For tachometers, the lower activation threshold is 400 RPM.

Changes of the thresholds are possible using the *ConfigTool*, refer to chapter 5.1, and by setting them in the extended configuration menu, refer to chapter 5.2.

Tell-tale 2 shows a motor symbol, symbol 2423 according to ISO 7000, with yellow illumination. This tell-tales serves as malfunction indicator lamp according to SAE J1939-73. It can be activated by pin 6 of the 12-pin connector or by lamp status in CAN message DM1, SPN 1213, PGN 65226.

Per default, Tell-tale 2 is equipped in tachometers.

Tell-tale 3 shows a cylinder symbol with text “STOP”, symbol 1388 according to ISO 7000, with red illumination. This tell-tales serves as red stop lamp according to SAE J1939-73. It can be activated by pin 7 of the 12-pin connector or by lamp status in CAN message DM1, SPN 1213, PGN 65226.

Per default, Tell-tale 3 is equipped in tachometers.

Tell-tales 4 and 5 are not equipped per default.

**1.4.3 Display content**

*SingleViu* gauges with diameter 80 or 100 mm contain an internal display on which diverse information may be shown. For details on the content, please refer to chapter 5.2 for the configuration menu and chapter 6 for the operation menu.

**1.4.4 Internal push-button**

*SingleViu* gauges with diameter 80 or 100 mm contain an internal push-button to operate the display. For details, please refer to chapter 5.2 for the configuration menu and chapter 6 for the operation menu.

**1.4.5 Illumination**

All gauges of the *SingleViu* family can alter the brightness and color of their background illumination for dial and display if available. This can be done using the *ConfigTool*, refer to chapter 5.1.3, or for devices with diameter 80 or 100 mm, also using the push-button, refer to chapters 5.2.3, 5.2.4 and 6.4.1.

In case of illumination setting by push-button, the device will try to broadcast a CAN message with PGN 53248. Byte 1 contains SPN1487 for illumination brightness. Additionally, bytes 5 – 8 will be used for privately communicating the illumination color to all other *SingleViu* gauges which are connected to the CAN bus.

**1.4.6 Send indication value onto CAN**

All gauges of the *SingleViu* family are able to broadcast the analogously measured indication value as CAN message. They will use their predefined source address and the default value for priority, SPN and PGN according to chapters 3.4, 3.5 and 3.6. All bytes other than the SPN in the CAN message will be written as 0xFF.

This function is not available for the air pressure gauge and the cylinder temperature gauges

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**1.5 Variants 52 mm**

Article number		Gauge type							Analog input			CAN input		
Single packaging	OE packaging (25 device)	Gauge type	Reference	Scale symbol	Min	Max	Unit	Type	Sensor range	Sensor curve	PGN	SPN	CAN Source address	
A2C3833090001	A2C3833090025	Ammeter		ISO 0247	-30	+30	AMP	Voltage	-60 - +60 mV	3.4.1	65271	114	0x29	
A2C3833080001	A2C3833080025	Ammeter		ISO 0247	-60	+60	AMP	Voltage	-60 - +60 mV	3.4.2	65271	114	0x29	
A2C3833070001	A2C3833070025	Ammeter		ISO 0247	-100	+100	AMP	Voltage	-60 - +60 mV	3.4.3	65271	114	0x29	
A2C3833060001	A2C3833060025	Ammeter		ISO 0247	-150	+150	AMP	Voltage	-60 - +60 mV	3.4.4	65271	114	0x29	
A2C3832760001	A2C3832760025	Concentration	DEF/AdBlue®	ISO 2946 + "DEF"	0	100	%		n.a.		64923	3516	0x27	
A2C3833550001	A2C3833550025	Level	DEF/AdBlue®	ISO 0245 + "DEF"	0	1		Resistance	3 - 180 Ω	3.4.5	65110	1761	0x27	
A2C3832750001	A2C3832750025	Level	DEF/AdBlue®	ISO 0245 + "DEF"	E	F		Resistance	240 - 33,5 Ω	3.4.6	65110	1761	0x27	
A2C3833100001	A2C3833100025	Level	Fuel	ISO 0245	0	1		Resistance	3 - 180 Ω	3.4.5	65276	96	0x27	
A2C3833110001	A2C3833110025	Level	Fuel	ISO 0245	0	1		Resistance	90 - 5 Ω	3.4.7	65276	96	0x27	
A2C3833120001	A2C3833120025	Level	Fuel	ISO 0245	E	F		Resistance	3 - 180 Ω	3.4.5	65276	96	0x27	
A2C3833130001	A2C3833130025	Level	Fuel	ISO 0245	E	F		Resistance	240 - 33,5 Ω	3.4.6	65276	96	0x27	
A2C3833140001	A2C3833140025	Level	Fuel	ISO 0245	E	F		Resistance	0 - 90 Ω	3.4.8	65276	96	0x27	
A2C3833150001	A2C3833150025	Level	Fuel	ISO 0245	E	F		Resistance	90 - 5 Ω	3.4.7	65276	96	0x27	
A2C3916300001	A2C3916300025	Level	Fuel	ISO 0245	E	F		Voltage	0 - 5 V	3.4.9	65276	96	0x27	
A2C3833440001	A2C3833440025	Pressure	Air	"AIR"	0	150	psi	Resistance	10 - 184 Ω	3.4.10		n.a.		
A2C3833450001	A2C3833450025	Pressure	Brake oil	ISO 1402	0	10	bar	Resistance	10 - 184 Ω	3.4.11	65274	117	0x25	
A2C3832710001	A2C3832710025	Pressure	Brake oil	ISO 1402	0	16	bar	Voltage	0,5 - 4,5 V	3.4.12	65274	117	0x25	
A2C3833480001	A2C3833480025	Pressure	Brake oil	ISO 1402	0	150	psi	Resistance	10 - 184 Ω	3.4.10	65274	117	0x25	
A2C3832730001	A2C3832730025	Pressure	Brake oil	ISO 1402	0	250	psi	Voltage	0,5 - 4,5 V	3.4.13	65274	117	0x25	
A2C3833460001	A2C3833460025	Pressure	Gear oil	ISO 1167	0	25	bar	Resistance	10 - 184 Ω	3.4.14	65272	127	0x23	
A2C3832720001	A2C3832720025	Pressure	Gear oil	ISO 1167	0	30	bar	Voltage	0,5 - 4,5 V	3.4.15	65272	127	0x23	
A2C3833500001	A2C3833500025	Pressure	Gear oil	ISO 1167	0	400	psi	Resistance	10 - 184 Ω	3.4.16	65272	127	0x23	
A2C3832740001	A2C3832740025	Pressure	Gear oil	ISO 1167	0	500	psi	Voltage	0,5 - 4,5 V	3.4.17	65272	127	0x23	
A2C3833160001	A2C3833160025	Pressure	Engine oil	ISO 0248	0	5	bar	Resistance	10 - 184 Ω	3.4.20	65263	100	0x22	
A2C3833170001	A2C3833170025	Pressure	Engine oil	ISO 0248	0	10	bar	Resistance	10 - 184 Ω	3.4.11	65263	100	0x22	

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Article number		Gauge type		Skala				Analog input			CAN input		
Single packaging	OE packaging (25 device)	Gauge type	Reference	Scale symbol	Min	Max	Unit	Type	Sensor range	Sensor curve	PGN	SPN	CAN Source address
A2C3833230001	A2C3833230025	Pressure	Engine oil	ISO 0248	0	80	psi	Resistance	240 - 33,5 Ω	3.4.21	65263	100	0x22
A2C3833190001	A2C3833190025	Pressure	Engine oil	ISO 0248	0	80	psi	Resistance	10 - 184 Ω	3.4.22	65263	100	0x22
A2C3832690001	A2C3832690025	Pressure	Engine oil	ISO 0248	0	10	bar	Voltage	0,5 - 4,5 V	3.4.18	65263	100	0x22
A2C3833240001	A2C3833240025	Pressure	Engine oil	"OIL"	0	150	psi	Resistance	10 - 184 Ω	3.4.10	65263	100	0x22
A2C3833300001	A2C3833300025	Pressure	Engine oil	ISO 0248	0	150	psi	Resistance	10 - 184 Ω	3.4.10	65263	100	0x22
A2C3832700001	A2C3832700025	Pressure	Engine oil	ISO 0248	0	150	psi	Voltage	0,5 - 4,5 V	3.4.19	65263	100	0x22
A2C3833490001	A2C3833490025	Pressure	Turbo	ISO 2107	0	2	bar	Resistance	10 - 184 Ω	3.4.23	65270	102	0x24
A2C3833470001	A2C3833470025	Pressure	Turbo	ISO 2107	0	60	psi	Resistance	10 - 184 Ω	3.4.24	65270	102	0x24
A2C3833050001	A2C3833050025	Pyrometer		ISO 1383 + "PYRO"	0	1000	°C	Voltage	4,1 - 37,7 mV	3.4.25	65270	173	0x30
A2C3833040001	A2C3833040025	Pyrometer		ISO 1383 + "PYRO"	0	2000	°F	Voltage	4,1 - 37,7 mV	3.4.26	65270	173	0x30
A2C3833030001	A2C3833030025	Tachometer			0	4000	RPM x 100		n.a.		61444	190	0x17
A2C3833520001	A2C3833520025	Temperature	Cylinder		60	200	°C	Resistance	482,5 - 14,3 Ω	3.4.27			n.a.
A2C3833530001	A2C3833530025	Temperature	Cylinder		150	400	°F	Resistance	482,5 - 14,3 Ω	3.4.28			n.a.
A2C3833510001	A2C3833510025	Temperature	Hydraulic oil	ISO 1414	40	120	°C	Resistance	287,4 - 22,7 Ω	3.4.29	65128	1638	0x21
A2C3916310001	A2C3916310025	Temperature	Hydraulic oil	ISO 1414	0	250	°F	Resistance	287,4 - 22,7 Ω	3.4.30	65128	1638	0x21
A2C3833380001	A2C3833380025	Temperature	Engine oil	ISO 2426	50	150	°C	Resistance	322,8 - 18,6 Ω	3.4.31	65262	175	0x19
A2C3833390001	A2C3833390025	Temperature	Engine oil	ISO 1375	50	150	°C	Resistance	322,8 - 18,6 Ω	3.4.31	65262	175	0x19
A2C3833410001	A2C3833410025	Temperature	Engine oil	ISO 2426	100	300	°F	Resistance	322,8 - 18,6 Ω	3.4.32	65262	175	0x19
A2C3833320001	A2C3833320025	Temperature	Cooling water	ISO 0246	40	120	°C	Resistance	287,4 - 22,7 Ω	3.4.29	65262	110	0x18
A2C3833330001	A2C3833330025	Temperature	Cooling water	ISO 1380	40	120	°C	Resistance	287,4 - 22,7 Ω	3.4.30	65262	110	0x18
A2C3833340001	A2C3833340025	Temperature	Cooling water	ISO 0246	100	250	°F	Resistance	450 - 30 Ω	3.4.33	65262	110	0x18
A2C3833350001	A2C3833350025	Temperature	Cooling water	ISO 0246	100	250	°F	Resistance	287,4 - 22,7Ω	3.4.34	65262	110	0x18
A2C3832770001	A2C3832770025	Voltmeter		ISO 0247	8	16	VOLT		n.a.		65271	168	0x28
A2C3832780001	A2C3832780025	Voltmeter		ISO 0247	16	32	VOLT		n.a.		65271	168	0x28

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**Sensor curves**
**1.5.1 Sensor curve for Ammeter A2C38330600**

Indication value [A]	-150	-100	-50	0	50	100	150
Input value [mV]	-60	-40	-20	0	+20	+40	+60

**1.5.2 Sensor curve for Ammeter A2C38330700**

Indication value [A]	-100	-50	0	50	100
Input value [mV]	-60	-30	0	+30	+60

**1.5.3 Sensor curve for Ammeter A2C38330800**

Indication value [A]	-60	-40	-20	0	+20	+40	+60
Input value [mV]	-60	-40	-20	0	+20	+40	+60

**1.5.4 Sensor curve for Ammeter A2C38330900**

Indication value [A]	-30	-20	-10	0	+10	+20	+30
Input value [mV]	-60	-40	-20	0	+20	+40	+60

**1.5.5 Sensor curve for level gauge A2C38335500, A2C38331000, A2C38331200**

Indication value	0 & E	8%	17%	1/4	38%	1/2	63%	3/4	88%	1/1 & F
Input value [Ohm]	3	17	31	45	65	85	112	138	159	180

**1.5.6 Sensor curve for level gauge A2C38327500, A2C38331300**

Indication value	E	1/4	1/2	3/4	F
Input value [Ohm]	240	153	103	68	34

**1.5.7 Sensor curve for level gauge A2C38331100, A2C38331500**

Indication value	0	1/4	1/2	3/4	1/1
Input value [Ohm]	75	58	41	23	6

Characteristic curve predefined for fuel level sensors with input value 75 Ohm at indication value is zero. Setup for input value via Config-Tool possible, see Chapter 5.1.3.3.

**1.5.8 Sensor curve for level gauge A2C38331400**

Indication value	E	1/6	1/4	1/3	1/2	2/3	3/4	5/6	F
Input value [Ohm]	0	15	22,5	30	45	60	67,5	75	90

Characteristic curve predefined for fuel level sensors with input value zero Ohm at indication value is E. Setup for input value via Config-Tool possible, see Chapter 5.1.3.3.

**1.5.9 Sensor curve for level gauge A2C39163000**

Indication value	0	1/4	1/2	3/4	1/1
Input value [Volt]	0	1	3	4	5

**1.5.10 Sensor curve for Pressure gauge A2C38334400, A2C38334800, A2C38332400, A2C38333000**

Indication value [psi]	0	15	30	50	60	75	90	100	125	135	150
Input value [Ohm]	10	32	53	79	92	110	128	144	165	175	188

Characteristic curve predefined 10 bar pressure sensors from the Continental-Portfolio

**1.5.11 Sensor curve for Pressure gauge A2C38334500, A2C38331700**

Indication value [bar]	0	1	2	3	4	5	6	7	8	9	10
Input value [Ohm]	10	31	52	71	90	107	124	140	156	170	184

Characteristic curve predefined 10 bar pressure sensors from the Continental-Portfolio

**1.5.14 Sensor curve for Pressure gauge A2C38334600**

Indication value [bar]	0	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25
Input value [Ohm]	10	32	53	73	91	109	125	141	156	170	184

Characteristic curve predefined 25 bar pressure sensors from the Continental-Portfolio

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**1.5.16 Sensor curve for Pressure gauge A2C38335000**

Indication value [psi]	0	50	100	130	170	200	230	270	300	350	400
Input value [Ohm]	10	41	68	84	104	117	131	148	160	179	198

Characteristic curve predefined 28 bar pressure sensors from the Continental-Portfolio

**1.5.20 Sensor curve for pressure gauge A2C38331600**

Indication value [bar]	0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5
Input value [Ohm]	11	29	47	65	82	100	117	134	151	167	184

Characteristic curve predefined 5 bar pressure sensors from the Continental-Portfolio

**1.5.21 Sensor curve for pressure gauge A2C38332300**

Indication value [psi]	0	10	20	25	30	35	40	60	80
Input value [Ohm]	240	198	177	148	120	104	82	63	34

**1.5.22 Sensor curve for pressure gauge A2C38331900**

Indication value [psi]	0	10	20	26	34	40	46	54	60	70	80
Input value [Ohm]	11	36	60	75	94	108	123	141	155	178	201

Characteristic curve predefined 5 bar pressure sensors from the Continental-Portfolio

**1.5.23 Sensor curve for pressure gauge A2C38334900**

Indication value [bar]	0	0,2	0,4	0,6	0,8	1	1,2	1,4	1,6	1,8	2
Input value [Ohm]	10	28	47	65	83	100	118	135	151	168	184

Characteristic curve predefined 2 bar pressure sensors from the Continental-Portfolio

**1.5.24 Sensor curve for pressure gauge A2C38334700**

Indication value [psi]	0	10	15	20	25	30	35	40	45	50	60
Input value [Ohm]	11	36	48	60	72	84	96	108	120	132	155

Characteristic curve predefined 5 bar pressure sensors from the Continental-Portfolio

**1.5.25 Sensor curve for pyrometer A2C38330500**

Indication value [C°]	0	100	250	300	400	500	600	700	750	900	1000
Input value [mV]	0	4	10	12	16	21	25	29	31	37	41

Pyrometer N03 320 264

**1.5.26 Sensor curve for pyrometer A2C38330400**

Indication value [°F]	0	200	500	800	1000	1200	1500	1800	2000
Input value [mV]	0	4	11	18	22	27	34	41	45

Pyrometer N03 320 264

**1.5.27 Sensor curve for temperature gauge A2C38335200**

Indication value [°C]	60	80	100	120	140	160	180	200
Input value [Ohm]	483	265	151	85	53	32	21	14

**1.5.28 Sensor curve for temperature gauge A2C38335300**

Indication value [°F]	150	175	200	225	250	275	300	325	350	375	400
Input value [Ohm]	422	271	189	127	83	61	44	30	23	17	12

**1.5.29 Sensor curve for temperature gauge A2C38335100, A2C38333200, A2C38333300**

Indication value [°C]	40	50	60	70	80	90	100	110	120
Input value [Ohm]	291	197	134	97	70	51	38	29	22

Thermistor 92-027-004

**1.5.30 Sensor curve for temperature gauge A2C39163100**

Indication value [°F]	0	50	80	100	110	125	150	175	200	225	250
Input value [Ohm]	4519	1076	509	320	257	185	112	71	47	31	22

Thermistor 92-027-004

TU00-0761-5207102

**1.5.31 Sensor curve for temperature gauge A2C38333800, A2C38333900**

Indication value [°C]	50	60	70	75	80	90	100	110	125	135	150
Input value [Ohm]	322	221	155	131	112	83	62	47	32	26	19

Thermistor 92-027-006

**1.5.32 Sensor curve for temperature gauge A2C38334100**

Indication value [°F]	100	120	150	170	190	200	210	230	250	280	300
Input value [Ohm]	532	338	181	125	89	75	64	47	36	24	19

Heißeleiter / Thermistor 92-027-006

**1.5.33 Sensor curve for temperature gauge A2C38333400**

Indication value [°F]	100	125	150	175	200	225	250
Input value [Ohm]	450	205	140	99	62	41	30

„Sensor data Malaysia s.a.“, Characteristic curve 4

**1.5.34 Sensor curve for temperature gauge A2C38333500**

Indication value [°F]	100	110	125	150	175	200	225	250
Input value [Ohm]	320	257	185	112	71	47	31	22

Heißeleiter / Thermistor 92-027-004

**1.6 Variants 80 mm**

Article number		Gauge type	Scale			Analog input		CAN input		
Single packaging	OE packaging (10 parts)		Min	Max	Unit	Type	Sensor curve	PGN	SPN	CAN Source address
A2C3832910001	A2C3832910025	Speedometer	0	120	km/h	Pulse	L	65265	84	0xA7
A2C3832920001	A2C3832920025	Speedometer	0	140	mph	Pulse	L	65265	84	0xA7
A2C3832930001	A2C3832930025	Speedometer	0	160	mph	Pulse	L	65265	84	0xA7
A2C3832940001	A2C3832940025	Speedometer	0	200	km/h	Pulse	L	65265	84	0xA7
A2C3832950001	A2C3832950025	Speedometer	0	300	km/h	Pulse	L	65265	84	0xA7
A2C3832880001	A2C3832880025	Speedometer	0	30	mph	Pulse	L	65265	84	0xA7
A2C3832890001	A2C3832890025	Speedometer	0	60	km/h	Pulse	L	65265	84	0xA7
A2C3832900001	A2C3832900025	Speedometer	0	90	mph	Pulse	L	65265	84	0xA7
A2C3832960001	A2C3832960025	Tachometer	0	2000	RPM x 100	Pulse	L	61444	190	0x17
A2C3832970001	A2C3832970025	Tachometer	0	2500	RPM x 100	Pulse	L	61444	190	0x17
A2C3832980001	A2C3832980025	Tachometer	0	3000	RPM x 100	Pulse	L	61444	190	0x17
A2C3832990001	A2C3832990025	Tachometer	0	4000	RPM x 100	Pulse	L	61444	190	0x17
A2C3833000001	A2C3833000025	Tachometer	0	5000	RPM x 100	Pulse	L	61444	190	0x17
A2C3833010001	A2C3833010025	Tachometer	0	6000	RPM x 100	Pulse	L	61444	190	0x17
A2C3833020001	A2C3833020025	Tachometer	0	8000	RPM x 100	Pulse	L	61444	190	0x17

**1.6.1 Sensor curve**

The indication value is linear to the number of pulses respectively the frequency of the input signal.

For tachometers this proportionality factor between 0.5 and 400 pulses may be chosen. Default is a number of 6 pulses per motor turn.

For speedometers this proportionality factor between 500 and 400,000 pulses may be chosen. Default is a number of 8000 pulses per kilometer.

TU00-0761-5207102

# SingleViu®

## 1.7 Variants 100 mm

Article number		Gauge type	Scale			Analog input		CAN input		
Single packaging	OE packaging (10 Teile)		Min	Max	Unit	Art	Sensor curve	PGN	SPN	CAN Source address
A2C3832860001	A2C3832860025	Speedometer	0	120	km/h	Pulse	L	65265	84	0xA7
A2C3832850001	A2C3832850025	Speedometer	0	140	mph	Pulse	L	65265	84	0xA7
A2C3832840001	A2C3832840025	Speedometer	0	200	km/h	Pulse	L	65265	84	0xA7
A2C3832830001	A2C3832830025	Speedometer	0	300	km/h	Pulse	L	65265	84	0xA7
A2C3832870001	A2C3832870025	Speedometer	0	90	mph	Pulse	L	65265	84	0xA7
A2C3832820001	A2C3832820025	Tachometer	0	2500	RPM x 100	Pulse	L	61444	190	0x17
A2C3832810001	A2C3832810025	Tachometer	0	3000	RPM x 100	Pulse	L	61444	190	0x17
A2C3832800001	A2C3832800025	Tachometer	0	4000	RPM x 100	Pulse	L	61444	190	0x17
A2C3832790001	A2C3832790025	Tachometer	0	5000	RPM x 100	Pulse	L	61444	190	0x17

### 1.7.1 Sensor curve

The indication value is linear to the number of pulses respectively the frequency of the input signal.

For tachometers this proportionality factor between 0.5 and 400 pulses may be chosen. Default is a number of 6 pulses per motor turn.

For speedometers this proportionality factor between 500 and 400,000 pulses may be chosen. Default is a number of 8000 pulses per kilometer.

## 1.8 Homologation

### 1.8.1 CE mark

All gauges of the *SingleViu* family have been developed and produced in compliance to EU regulation 765/2008 and therefore show the “CE” mark. on their label.

For the official declaration of conformity, please contact your regional specialist dealer.



### 1.8.2 Homologation according to UN-ECE

The gauge of the *SingleViu* family have been tested according to regulation UN-ECE 10R („electromagnetic compatibility“) and the type has been homologated.

The gauges therefore show the “E” mark on their label.

