

Pressure Measurement

Single-range transmitters for general applications

SITRANS P200 for gauge and absolute pressure

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Overview



The SITRANS P200 pressure transmitter measures the gauge and absolute pressure of liquids, gases and vapors.

- Ceramic measuring cell
- Gauge and absolute measuring ranges 1 to 60 bar (15 to 1000 psi)
- For general applications

Benefits

- High measuring accuracy
- Rugged stainless steel enclosure
- High overload withstand capability
- For aggressive and non-aggressive media
- For measuring the pressure of liquids, gases and vapors
- Compact design

Application

The SITRANS P200 pressure transmitter for gauge and absolute pressure is used in the following industrial areas:

- Mechanical engineering
- Shipbuilding
- Power engineering
- Chemical industry
- Water supply

Design

Device structure without explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65), a M12 device plug (IP67), a cable (IP67) or a Quickon cable quick screw connection (IP67) connected electrically. The output signal is between 4 and 20 mA or 0 and 10 V.

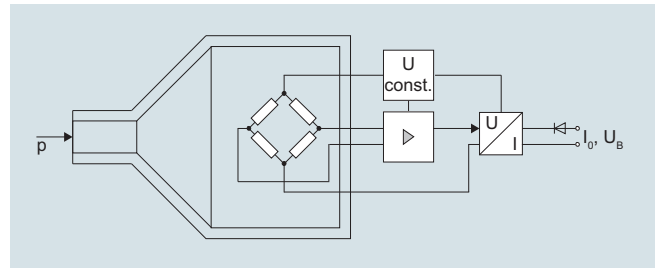
Device structure with explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65) or a M12 device plug (IP67) connected electrically. The output signal is between 4 and 20 mA.

Function

The pressure transmitter measures the gauge and absolute pressure of liquids and gases as well as the level of liquids.

Mode of operation



SITRANS P200 pressure transmitters (7MF1565-...), functional diagram

The ceramic measuring cell has a thin-film resistance bridge to which the operating pressure p is transmitted through a ceramic diaphragm.

The voltage output from the measuring cell is converted by an amplifier into an output current of 4 to 20 mA or an output voltage of 0 to 10 V DC.

The output current and voltage are linearly proportional to the input pressure.

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Technical specifications

Application	Liquids, gases and vapors
Gauge and absolute pressure measurement	
Mode of operation	
Measuring principle	Piezo-resistive measuring cell (ceramic diaphragm)
Measured variable	Gauge and absolute pressure
Inputs	
Measuring range	
• Gauge pressure	
- Metric	1 ... 60 bar (15 ... 870 psi)
- US measuring range	15 ... 1000 psi
• Absolute pressure	
- Metric	0.6 ... 16 bar a
- US measuring range	(10 ... 232 psi abs a) 10 ... 300 psi a
Output	
Current signal	4 ... 20 mA
• Load	($U_B - 10\text{ V}$)/0.02 A
• Auxiliary power U_B	DC 7 ... 33 V (10 ... 30 V for Ex)
Voltage signal	0 ... 10 V DC
• Load	$\geq 10\text{ k}\Omega$
• Auxiliary power U_B	12 ... 33 V DC
• Power consumption	< 7 mA at 10 k Ω
Ratiometric output	0 ... 90 %
• Load	$\geq 10\text{ k}\Omega$
• Auxiliary power U_B	5 V DC $\pm 10\%$
• Power consumption	< 7 mA at 10 k Ω
Characteristic curve	Linear rising
Measuring accuracy	
Error in measurement at limit setting incl. hysteresis and reproducibility	• Typical: 0.25 % of measuring span • Maximum: 0.5 % of measuring span
Step response time T_{99}	< 5 ms
Long-term stability	
• Lower range value and measuring span	0.25 % of measuring span/year
Influence of ambient temperature	
• Lower range value and measuring span	0.25 %/10 K of measuring span
• Influence of power supply	0.005 %/V
Conditions of use	
Process temperature with gasket made of:	
• FPM (Standard)	-15 ... +125 °C (+5 ... +257 °F)
• Neoprene	-35 ... +100 °C (-31 ... +212 °F)
• Perbunan	-20 ... +100 °C (-4 ... +212 °F)
• EPDM	-40 ... +125 °C (-40 ... +257 °F), usable for drinking water
Ambient temperature	-25 ... +85 °C (-13 ... +185 °F)
Storage temperature	-50 ... +100 °C (-58 ... +212 °F)
Degree of protection (to EN 60529)	• IP 65 with connector per EN 175301-803-A • IP 67 with M12 device plug • IP 67 with cable • IP 67 with cable quick screw connection

Electromagnetic compatibility	• acc. IEC 61326-1/-2/-3 • acc. NAMUR NE21, only for ATEX versions and with a max. measuring deviation $\leq 1\%$
Design	
Weight	Approx. 0.090 kg (0.198 lb)
Process connections	See dimension drawings
Electrical connections	• Connector per EN 175301-803-A Form A with cable inlet M16x1.5 or 1/2-14 NPT or Pg 11 • M12 device plug • 2 or 3-wire (0.5 mm ²) cable ($\varnothing \pm 5.4\text{ mm}$) • Quickon cable quick screw connection
Wetted parts materials	
• Measuring cell	Al ₂ O ₃ - 96 %
• Process connection	Stainless steel, mat. No. 1.4404 (SST 316 L)
• Gasket	• FPM (Standard) • Neoprene • Perbunan • EPDM
Non-wetted parts materials	
• Enclosure	Stainless steel, mat. No. 1.4404 (SST 316 L)
• Rack	Plastic
• Cables	PVC
Certificates and approvals	
Classification according to pressure equipment directive (PED 2014/68/EU)	For gases of fluid group 1 and liquids of fluid group 1; complies with requirements of article 4, paragraph 3 (sound engineering practice)
Lloyd's Register of Shipping (LR) ¹⁾	12/20010
Germanischer Lloyd (GL) ¹⁾	GL19740 11 HH00
American Bureau of Shipping (ABS) ¹⁾	ABS_11_HG 789392_PDA
Bureau Veritas (BV) ¹⁾	BV 271007A0 BV
Det Norske Veritas (DNV) ¹⁾	A 12553
Drinking water approval (ACS) ¹⁾	ACS 15 ACC NY 360
EAC ¹⁾	№ TC RU C-DE.ГБ05.B.00732 OC НАННО «ЦБЭ»
Underwriters Laboratories (UL) ¹⁾	
• for USA and Canada	UL 20110217 - E34453
• worldwide	IEC UL DK 21845
Explosion protection	
Intrinsic safety "i" (only with current output)	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T125 °C Da/Db
EC type-examination certificate	SEV 10 ATEX 0146
Connection to certified intrinsically-safe resistive circuits with maximum values:	$U_i \leq 30\text{ V DC}$; $I_i \leq 100\text{ mA}$; $P_i \leq 0.75\text{ W}$
Effective internal inductance and capacity for versions with plugs per EN 175301-803-A and M12	$L_i = 0\text{ nH}$; $C_i = 0\text{ nF}$

¹⁾ For variants with output signal 0 ... 5 V and ratiometric output available soon.

Pressure Measurement

Single-range transmitters for general applications

SITRANS P200 for gauge and absolute pressure**Selection and ordering data**

Article No.

Order code

SITRANS P 200 pressure transmitters for pressure and absolute pressure for general applications ↗

7MF1565 -

Characteristic curve deviation typ. 0.25 %

Wetted parts materials: Ceramic and stainless steel + sealing material

Non-wetted parts materials: stainless steel

↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Measuring range		Overload limit		Burst pressure					
		Min.	Max.						
For gauge pressure									
0 ... 1 bar	(0 ... 14.5 psi)	-1 bar	(-14.5 psi)	2.5 bar	(36.26 psi)	> 2.5 bar	(> 36.3 psi)	3BA	
0 ... 1.6 bar	(0 ... 23.2 psi)	-1 bar	(-14.5 psi)	4 bar	(58.02 psi)	> 4 bar	(> 58.0 psi)	3BB	
0 ... 2.5 bar	(0 ... 36.3 psi)	-1 bar	(-14.5 psi)	6.25 bar	(90.65 psi)	> 6.25 bar	(> 90.7 psi)	3BD	
0 ... 4 bar	(0 ... 58.0 psi)	-1 bar	(-14.5 psi)	10 bar	(145 psi)	> 10 bar	(> 145 psi)	3BE	
0 ... 6 bar	(0 ... 87.0 psi)	-1 bar	(-14.5 psi)	15 bar	(217 psi)	> 15 bar	(> 217 psi)	3BG	
0 ... 10 bar	(0 ... 145 psi)	-1 bar	(-14.5 psi)	25 bar	(362 psi)	> 25 bar	(> 362 psi)	3CA	
0 ... 16 bar	(0 ... 232 psi)	-1 bar	(-14.5 psi)	40 bar	(580 psi)	> 40 bar	(> 580 psi)	3CB	
0 ... 25 bar	(0 ... 363 psi)	-1 bar	(-14.5 psi)	62.5 bar	(906 psi)	> 62.5 bar	(> 906 psi)	3CD	
0 ... 40 bar	(0 ... 580 psi)	-1 bar	(-14.5 psi)	100 bar	(1450 psi)	> 100 bar	(> 1450 psi)	3CE	
0 ... 60 bar	(0 ... 870 psi)	-1 bar	(-14.5 psi)	150 bar	(2175 psi)	> 150 bar	(> 2175 psi)	3CG	
Other version, add Order code and plain text: Measuring range: ... up to ... bar (psi)						9AA	H1 Y		
For absolute pressure									
0 ... 0.6 bar a	(0 ... 8.7 psi a)	0 bar a	(0 psi a)	2.5 bar a	(36.26 psi a)	> 2.5 bar a	(> 36.3 psi a)	5AG	
0 ... 1 bar a	(0 ... 14.5 psi a)	0 bar a	(0 psi a)	2.5 bar a	(36.26 psi a)	> 2.5 bar a	(> 36.3 psi a)	5BA	
0 ... 1.6 bar a	(0 ... 23.2 psi a)	0 bar a	(0 psi a)	4 bar a	(58.02 psi a)	> 4 bar a	(> 58.0 psi a)	5BB	
0 ... 2.5 bar a	(0 ... 36.3 psi a)	0 bar a	(0 psi a)	6.25 bar a	(90.65 psi a)	> 6.25 bar a	(> 90.7 psi a)	5BD	
0 ... 4 bar a	(0 ... 58.0 psi a)	0 bar a	(0 psi a)	10 bar a	(145 psi a)	> 10 bar a	(> 145 psi a)	5BE	
0 ... 6 bar a	(0 ... 87.0 psi a)	0 bar a	(0 psi a)	15 bar a	(217 psi a)	> 15 bar a	(> 217 psi a)	5BG	
0 ... 10 bar a	(0 ... 145 psi)	0 bar a	(0 psi a)	25 bar a	(362 psi a)	> 25 bar a	(> 362 psi a)	5CA	
0 ... 16 bar a	(0 ... 232 psi)	0 bar a	(0 psi a)	40 bar a	(580 psi a)	> 40 bar a	(> 580 psi a)	5CB	
Other version, add Order code and plain text: Measuring range: ... up to ... mbar a (psi a)						9AA	H2 Y		
Measuring ranges for gauge pressure									
0 ... 15 psi		-14.5 psi		35 psi		> 35 psi		4BB	
3 ... 15 psi		-14.5 psi		35 psi		> 35 psi		4BC	
0 ... 20 psi		-14.5 psi		50 psi		> 50 psi		4BD	
0 ... 30 psi		-14.5 psi		80 psi		> 80 psi		4BE	
0 ... 60 psi		-14.5 psi		140 psi		> 140 psi		4BF	
0 ... 100 psi		-14.5 psi		200 psi		> 200 psi		4BG	
0 ... 150 psi		-14.5 psi		350 psi		> 350 psi		4CA	
0 ... 200 psi		-14.5 psi		550 psi		> 550 psi		4CB	
0 ... 300 psi		-14.5 psi		800 psi		> 800 psi		4CD	
0 ... 500 psi		-14.5 psi		1400 psi		> 1400 psi		4CE	
0 ... 750 psi		-14.5 psi		2000 psi		> 2000 psi		4CF	
0 ... 1000 psi		-14.5 psi		2000 psi		> 2000 psi		4CG	
Other version, add Order code and plain text: Measuring range: ... up to ... psi						9AA	H1 Y		
Measuring ranges for absolute pressure									
0 ... 10 psi a		0 psi a		35 psi a		> 35 psi a		6AG	
0 ... 15 psi a		0 psi a		35 psi a		> 35 psi a		6BA	
0 ... 20 psi a		0 psi a		50 psi a		> 50 psi a		6BB	
0 ... 30 psi a		0 psi a		80 psi a		> 80 psi a		6BD	
0 ... 60 psi a		0 psi a		140 psi a		> 140 psi a		6BE	
0 ... 100 psi a		0 psi a		200 psi a		> 200 psi a		6BG	
0 ... 150 psi a		0 psi a		350 psi a		> 350 psi a		6CA	
0 ... 200 psi a		0 psi a		550 psi a		> 550 psi a		6CB	
0 ... 300 psi a		0 psi a		800 psi a		> 800 psi a		6CC	
Other version, add Order code and plain text: Measuring range: ... up to ... psi a						9AA	H2 Y		

Pressure Measurement

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Selection and ordering data	Article No.	Order code
SITRANS P 200 pressure transmitters for pressure and absolute pressure for general applications Accuracy typ. 0.25 % Wetted parts materials: Ceramic and stainless steel + sealing material Non-wetted parts materials: stainless steel	7MF1565-	
Output signal 4 ... 20 mA; two-wire system; power supply 7 ... 33 V DC (10 ... 30 V DC for ATEX versions) 0 ... 10 V; three-wire system; power supply 12 ... 33 V DC 0 ... 5 V; 3-wire system; auxiliary power 7 ... 33 V DC Ratiometric 10 ... 90 %; 3-wire system; auxiliary power 5 V DC ± 10 %		0 10 20 30
Explosion protection (only 4 ... 20 mA) None With explosion protection Ex ia IIC T4		0 1
Electrical connection Connector per DIN EN 175301-803-A, stuffing box thread M16 (with coupling) M12 device plug per IEC 61076-2-101 Connection via fixed mounted cable, 2 m (not for type of protection "Intrinsic safety i") Quickon cable quick screw connection PG9 (not for type of protection "Intrinsic safety i") Connector per DIN EN 175301-803-A, stuffing box thread 1/2"-14 NPT (with coupling) Connector per DIN EN 175301-803-A, stuffing box thread PG11 (with coupling) Fixed mounted cable, length 5 m Special version		1 2 03 04 5 6 07 9 N1Y
Process connection G1/2" male per EN 837-1 (1/2" BSP male) (standard for metric pressure ranges mbar, bar) G1/2" male thread and G1/8" female thread G1/4" male per EN 837-1 (1/4" BSP male) 7/16"-20 UNF male 1/4"-18 NPT male (standard for pressure ranges inH ₂ O and psi) 1/4"-18 NPT female 1/2"-14 NPT male 1/2"-14 NPT female 7/16"-20 UNF female M20x1.5 male G1/4" to DIN 3852 Form E G1/2" to DIN 3852 Form E Special version		A B C D E F G H J P Q R Z P1Y
Sealing material between sensor and enclosure Viton (FPM, standard) Neoprene (CR) Perbunan (NBR) EPDM Special version		A B C D Z Q1Y
Version Standard version		1
Further designs Supplement the Article No. with "-Z" and add Order code. Quality Inspection Certificate (5-point characteristic curve test) according to IEC 60770-2 Oxygen version, free of oil and degreased, max. operating pressure 60 bar, max. process temperature +85 °C (only in conjunction with the sealing material Viton between sensor and enclosure and not with explosion protection version)	C11 E10	

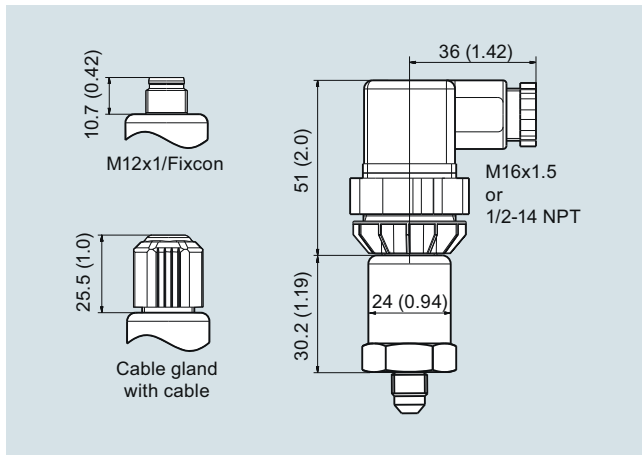
Pressure Measurement

Single-range transmitters for general applications

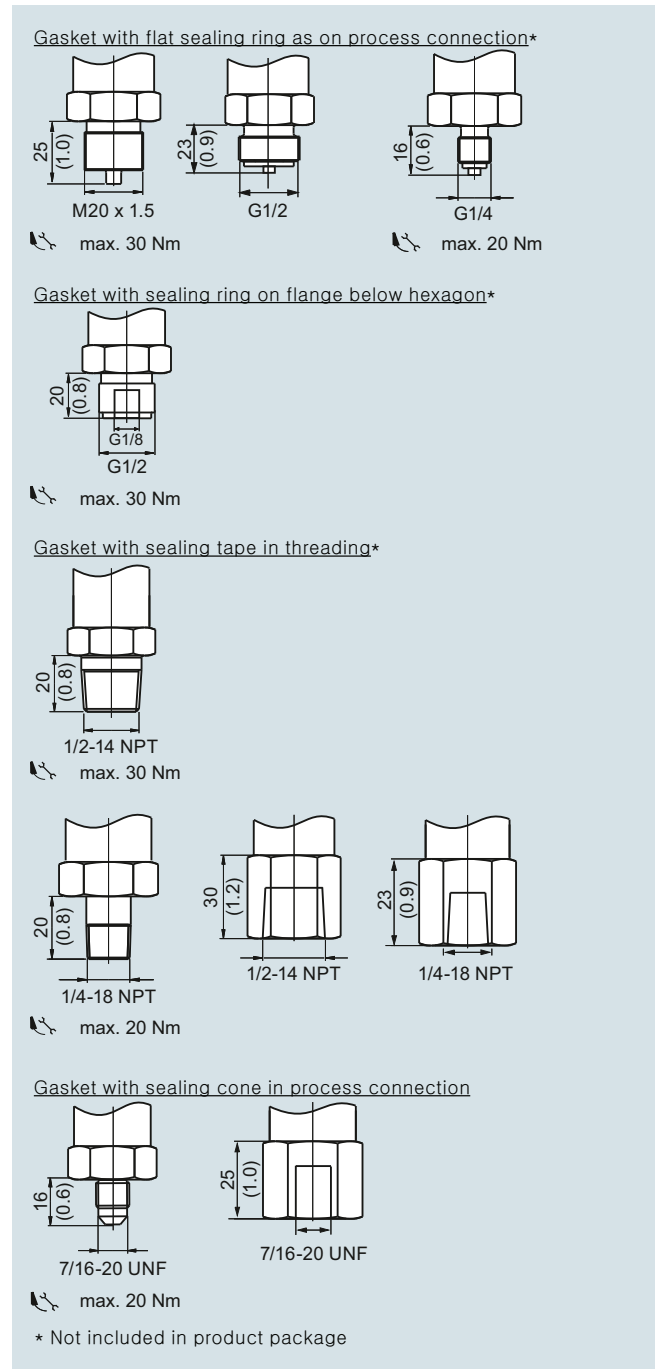
SITRANS P200 for gauge and absolute pressure

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Dimensional drawings



SITRANS P200, electrical connections, dimensions in mm (inch)



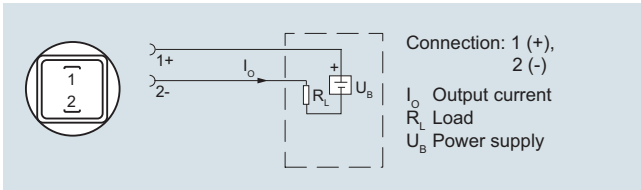
SITRANS P200, process connections, dimensions in mm (inch)

Pressure Measurement

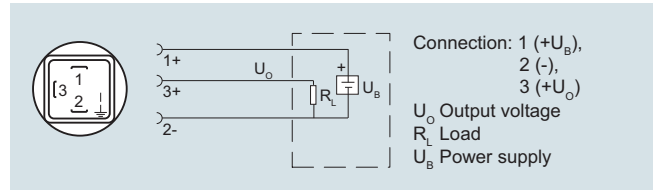
Single-range transmitters for general applications

SITRANS P200 for gauge and absolute pressure

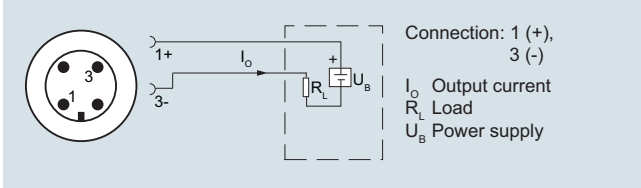
Schematics



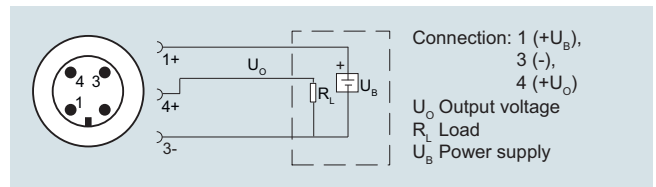
Connection with current output and connector per EN 175301



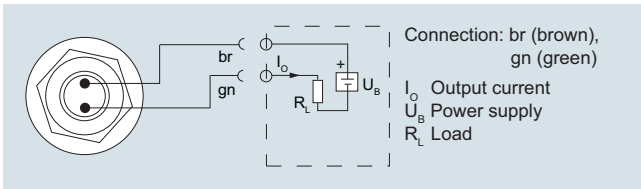
Connection with voltage output, ratiometric output and plug according to EN 175301



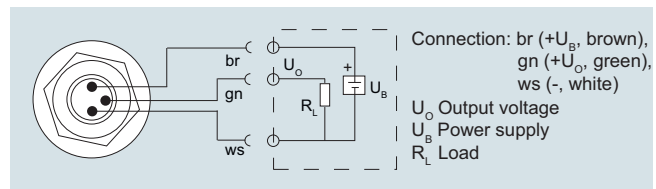
Connection with current output and M12x1 device plug



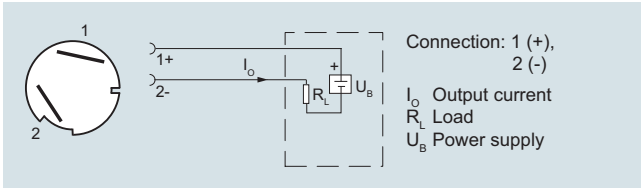
Connection with voltage output, ratiometric output and M12x1 device plug



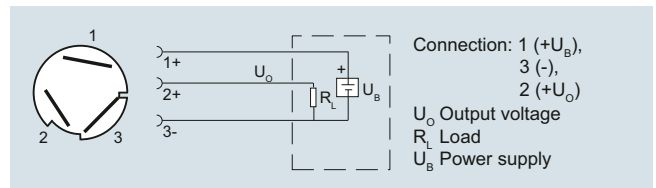
Connection with current output and cable



Connection with voltage output, ratiometric output and cable



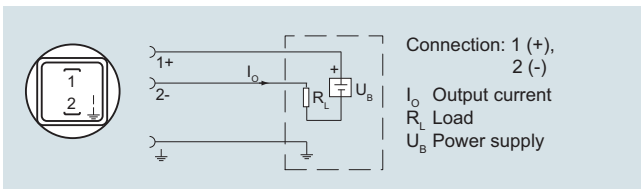
Connection with current output and Quickon cable quick screw connection



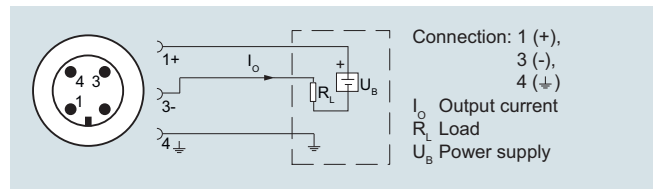
Connection with voltage output, ratiometric output and Quickon fast cable termination

Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with current output and M12x1 device plug (Ex)

Pressure Measurement

Single-range transmitters for general applications

SITRANS P210 for gauge pressure

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Overview



The pressure transmitter SITRANS P210 measures the gauge pressure of liquids, gases and vapors.

- Stainless steel measuring cell
- Measuring ranges 100 to 600 mbar (1.45 to 8.7 psi) relative
- For low-pressure applications

Benefits

- High measuring accuracy
- Rugged stainless steel enclosure
- High overload withstand capability
- For aggressive and non-aggressive media
- For measuring the pressure of liquids, gases and vapors
- Compact design

Application

The pressure transmitter SITRANS P210 for gauge pressure is used in the following industrial areas:

- Mechanical engineering
- Shipbuilding
- Power engineering
- Chemical industry
- Water supply

Design

Device structure without explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65), a M12 device plug (IP67), a cable (IP67) or a Quickon cable quick screw connection (IP67) connected electrically. The output signal is between 4 and 20 mA or 0 and 10 V.

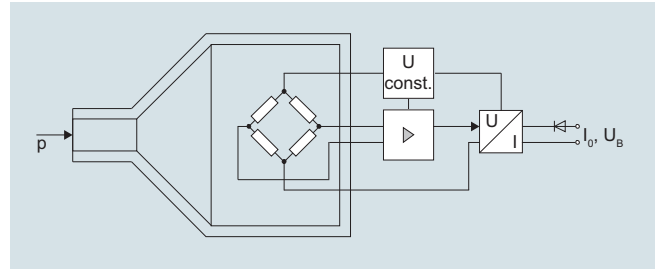
Device structure with explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65) or a M12 device plug (IP67) connected electrically. The output signal is between 4 and 20 mA.

Function

The pressure transmitter measures the gauge pressure of liquids and gases as well as the level of liquids.

Mode of operation



SITRANS P210 pressure transmitters (7MF1566-...), functional diagram

The stainless steel measuring cell has a thin-film resistance bridge to which the operating pressure p is transmitted through a stainless steel diaphragm.

The voltage output from the measuring cell is converted by an amplifier into an output current of 4 to 20 mA or an output voltage of 0 to 10 V DC.

The output current and voltage are linearly proportional to the input pressure.

Pressure Measurement

Single-range transmitters for general applications

SITRANS P210 for gauge pressure

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Technical specifications

Application	Gauge measurement	Liquids, gases and vapors
Mode of operation	Measuring principle	Piezoresistive measuring cell (stainless steel diaphragm)
Measured variable		Gauge pressure
Inputs	Measuring range	100 ... 600 mbar (1.5 ... 8.7 psi)
• Gauge pressure		
Output	Current signal	4 ... 20 mA
• Load		$(U_B - 10 \text{ V})/0.02 \text{ A}$
• Auxiliary power U_B		DC 7 ... 33 V (10 ... 30 V for Ex)
Voltage signal		0 ... 10 V DC
• Load		$\geq 10 \text{ k}\Omega$
• Auxiliary power U_B		12 ... 33 V DC
• Power consumption		< 7 mA at 10 k Ω
Ratiometric output		0 ... 90 %
• Load		$\geq 10 \text{ k}\Omega$
• Auxiliary power U_B		5 V DC \pm 10 %
• Power consumption		< 7 mA at 10 k Ω
Characteristic curve		Linear rising
Measuring accuracy	Error in measurement at limit setting incl. hysteresis and reproducibility	<ul style="list-style-type: none"> • Typical: 0.25 % of measuring span • Maximum: 0.5 % of measuring span
Step response time T_{99}		< 5 ms
Long-term stability		
• Lower range value and measuring span		0.25 % of measuring span/year
Influence of ambient temperature		
• Lower range value and measuring span		<ul style="list-style-type: none"> • 0.25 %/10 K of measuring span • 0.5 %/10K of measuring span for a measuring range 100 ... 400 mbar
• Influence of power supply		0.005 %/V
Conditions of use	Process temperature with gasket made of:	
• FPM (Standard)		-15 ... +125 °C (+5 ... +257 °F)
• Neoprene		-35 ... +100 °C (-31 ... +212 °F)
• Perbunan		-20 ... +100 °C (-4 ... +212 °F)
• EPDM		-40 ... +125 °C (-40 ... +257 °F), usable for drinking water
Ambient temperature		-25 ... +85 °C (-13 ... +185 °F)
Storage temperature		-50 ... +100 °C (-58 ... +212 °F)
Degree of protection (to EN 60529)		<ul style="list-style-type: none"> • IP 65 with connector per EN 175301-803-A • IP 67 with M12 device plug • IP 67 with cable • IP 67 with cable quick screw connection
Electromagnetic compatibility		<ul style="list-style-type: none"> • acc. IEC 61326-1/-2/-3 • acc. NAMUR NE21, only for ATEX versions and with a max. measuring deviation \leq 1 %
Mounting position		upright

Design	Weight	Approx. 0.090 kg (0.198 lb)
Process connections		See dimension drawings
Electrical connections		<ul style="list-style-type: none"> • Connector per EN 175301-803-A Form A with cable inlet M16x1.5 or 1/2-14 NPT or Pg 11 • M12 device plug • 2 or 3-wire (0.5 mm²) cable ($\varnothing \pm$ 5.4 mm) • Quickon cable quick screw connection
Wetted parts materials		
• Measuring cell		Stainless steel, mat.-No. 1.4435
• Process connection		Stainless steel, mat. No. 1.4404 (SST 316 L)
• Gasket		<ul style="list-style-type: none"> • FPM (Standard) • Neoprene • Perbunan • EPDM
Non-wetted parts materials		
• Enclosure		Stainless steel, mat. No. 1.4404 (SST 316 L)
• Rack		Plastic
• cables		PVC
Certificates and approvals	Classification according to pressure equipment directive (PED 2014/68/EU)	For gases of fluid group 1 and liquids of fluid group 1; meets requirements as per article 4, paragraph 3 (good engineering practice)
Lloyd's Register of Shipping (LR) ¹⁾		12/20010
Germanischer Lloyd (GL) ¹⁾		GL19740 11 HH00
American Bureau of Shipping (ABS) ¹⁾		ABS_11_HG 789392_PDA
Bureau Veritas (BV) ¹⁾		BV 271007A0 BV
Det Norske Veritas (DNV) ¹⁾		A 12553
Drinking water approval (ACS) ¹⁾		ACS 15 ACC NY 360
EAC ¹⁾		№ TC RU C-DE.ГБ05.В.00732 OC НАННО «ЦСВЭ»
Underwriters Laboratories (UL) ¹⁾		
• for USA and Canada		UL 20110217 - E34453
• worldwide		IEC UL DK 21845
Explosion protection	Intrinsic safety "i" (only with current output)	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T125 °C Da/Db
EC type-examination certificate		SEV 10 ATEX 0146
Connection to certified intrinsically-safe resistive circuits with maximum values:		$U_i \leq 30 \text{ V DC}$; $I_i \leq 100 \text{ mA}$; $P_i \leq 0.75 \text{ W}$
Effective internal inductance and capacity for versions with plugs per EN 175301-803-A and M12		$L_i = 0 \text{ nH}$; $C_i = 0 \text{ nF}$
¹⁾ For variants with output signal 0 ... 5 V and ratiometric output available soon.		

Pressure Measurement

Single-range transmitters for general applications

SITRANS P210 for gauge pressure

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Selection and ordering data

SITRANS P 210 pressure transmitters for gauge pressure for low pressure applications

Accuracy typ. 0.25 %

Wetted parts materials: Stainless steel + sealing material

Non-wetted parts materials: stainless steel

Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Article No.

Order code

7MF1566 - - - - -

Measuring range	Overload limit		Burst pressure
	min.	max.	
For gauge pressure			
0...100 mbar (1.45 psi)	-400 mbar (-5.8 psi)	400 mbar (5.8 psi)	1 bar (14.5 psi)
0...160 mbar (2.32 psi)	-400 mbar (-5.8 psi)	400 mbar (5.8 psi)	1 bar (14.5 psi)
0...250 mbar (3.63 psi)	-800 mbar (-11.6 psi)	1000 mbar (14.5 psi)	2 bar (29.0 psi)
0...400 mbar (5.8 psi)	-800 mbar (-11.6 psi)	1000 mbar (14.5 psi)	2 bar (29.0 psi)
0...600 mbar (8.7 psi)	-1000 mbar (-14.5 psi)	2000 mbar (29.0 psi)	3 bar (43.5 psi)

Other version, add Order code and plain text:
Measuring range: ... up to ... mbar (psi)

Output signal

- 4 ... 20 mA; two-wire system; power supply 7 ... 33 V DC (10 ... 30 V DC for ATEX versions)
- 0 ... 10 V; three-wire system; power supply 12 ... 33 V DC
- 0 ... 5 V; 3-wire system; auxiliary power 7 ... 33 V DC
- Ratiometric 10 ... 90 %; 3-wire system; auxiliary power 5 V DC ± 10 %

Explosion protection (only 4 ... 20 mA)

- None
- With explosion protection Ex ia IIC T4

Electrical connection

- Connector per DIN EN 175301-803-A, stuffing box thread M16 (with coupling)
- M12 device plug per IEC 61076-2-101
- Connection via fixed mounted cable, 2 m (not for type of protection "Intrinsic safety i")
- Quickon cable quick screw connection PG9 (not for type of protection "Intrinsic safety i")
- Connector per DIN EN 175301-803-A, stuffing box thread 1/2"-14 NPT (with coupling)
- Connector per DIN EN 175301-803-A, stuffing box thread PG11 (with coupling)
- Fixed mounted cable, length 5 m
- Special version

Process connection

- G1/2" male per EN 837-1 (1/2" BSP male) (standard for metric pressure ranges mbar, bar)
- G1/2" male thread and G1/8" female thread
- G1/4" male per EN 837-1 (1/4" BSP male)
- 7/16"-20 UNF male
- 1/4"-18 NPT male (standard for pressure ranges inH₂O and psi)
- 1/4"-18 NPT female
- 1/2"-14 NPT male
- 1/2"-14 NPT female
- 7/16"-20 UNF female
- M20x1.5 male
- G1/4" to DIN 3852 Form E
- G1/2" to DIN 3852 Form E
- Special version

Sealing material between sensor and enclosure

- Viton (FPM, standard)
- Neoprene (CR)
- Perbunan (NBR)
- EPDM
- Special version

Version

- Standard version

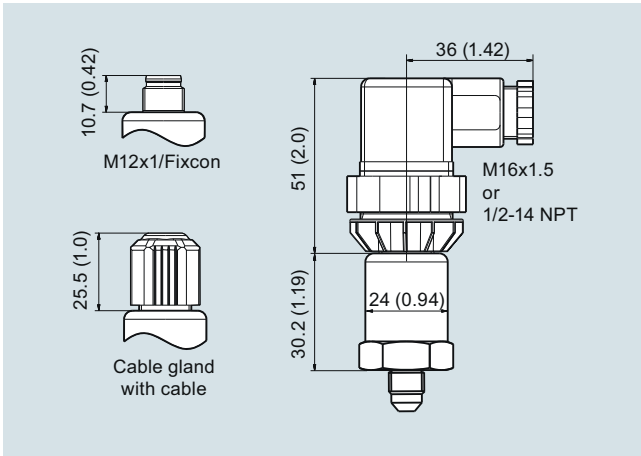
Further designs

- Supplement the Article No. with "-Z" and add Order code.
- Quality Inspection Certificate (5-point characteristic curve test) according to IEC 60770-2

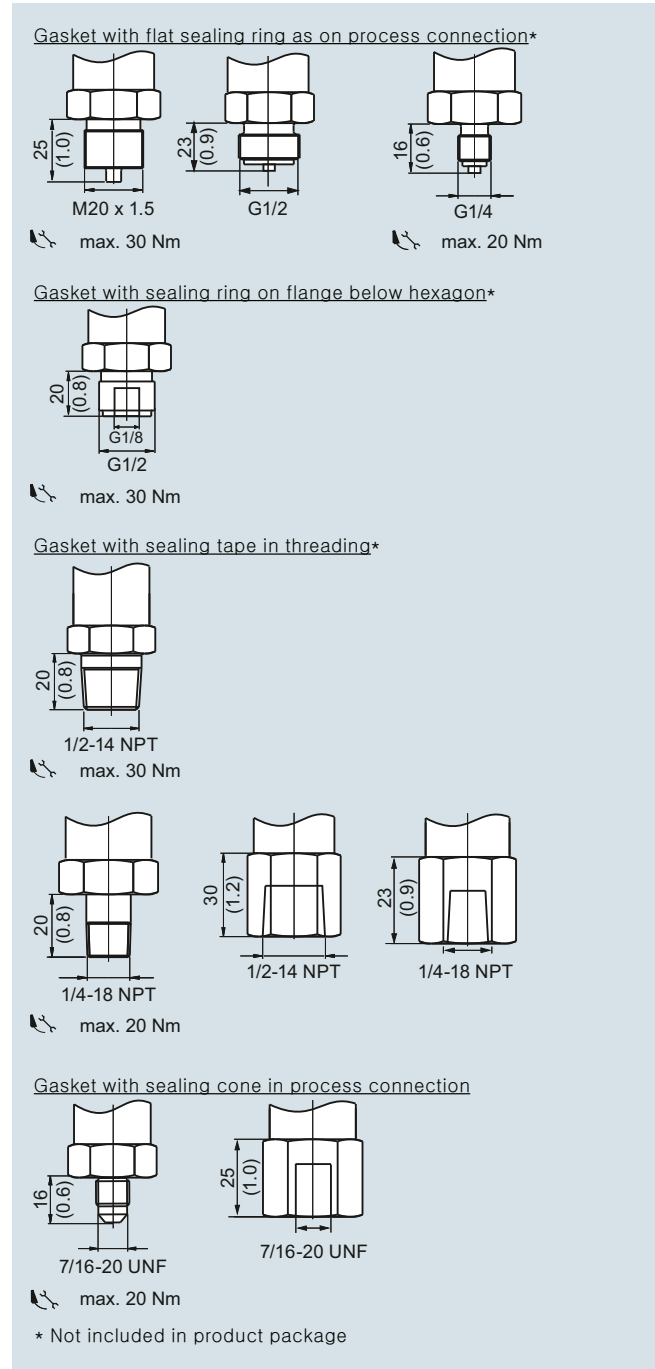
3 AA
3 AB
3 AC
3 AD
3 AG
9 AA
H 1 Y
0
10
20
30
0
1
1
2
3
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6
7
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N 1 Y
A
B
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D
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F
G
H
J
P
Q
R
Z
P 1 Y
A
B
C
D
Z
Q 1 Y
1

C11

Dimensional drawings



SITRANS P210, electrical connections, dimensions in mm (inch)



SITRANS P210, process connections, dimensions in mm (inch)

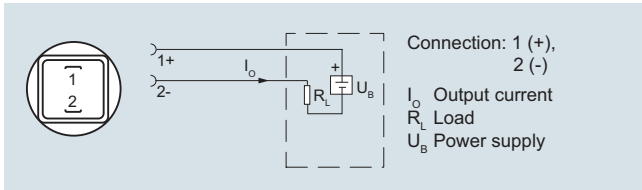
Pressure Measurement

Single-range transmitters for general applications

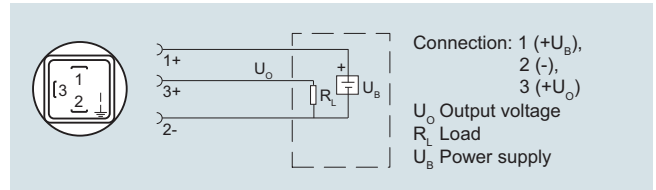
SITRANS P210 for gauge pressure

1

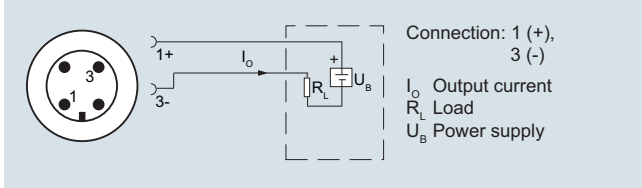
Schematics



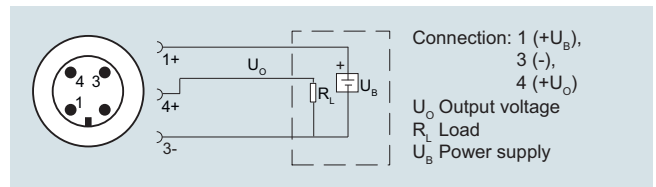
Connection with current output and connector per EN 175301



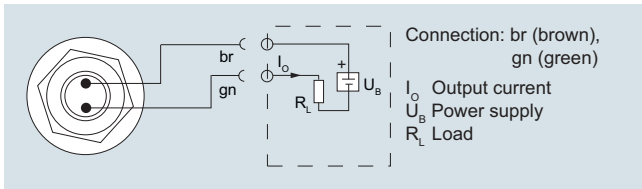
Connection with voltage output, ratiometric output and plug according to EN 175301



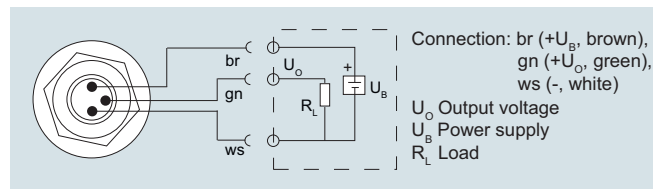
Connection with current output and M12x1 device plug



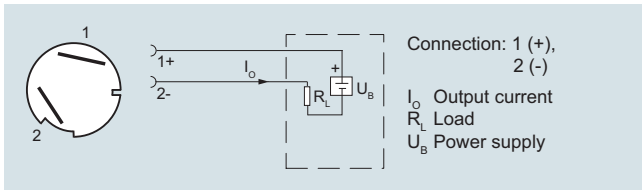
Connection with voltage output, ratiometric output and M12x1 device plug



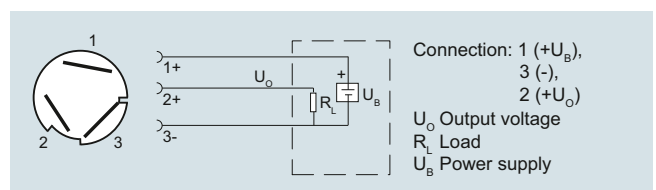
Connection with current output and cable



Connection with voltage output, ratiometric output and cable



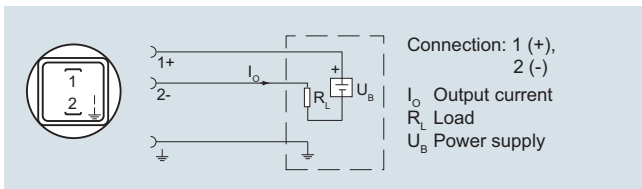
Connection with current output and Quickon cable quick screw connection



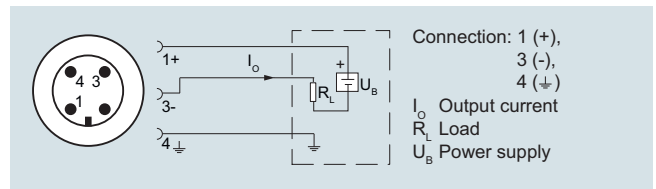
Connection with voltage output, ratiometric output and Quickon fast cable termination

Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with current output and M12x1 device plug (Ex)

Overview

The pressure transmitter SITRANS P220 measures the gauge pressure of liquids, gases and vapors.

- Stainless steel measuring cell, fully welded
- Measuring ranges 2.5 to 1000 bar (36.3 to 14500 psi) relative
- For high-pressure applications and refrigeration technology division

Benefits

- High measuring accuracy
- Rugged stainless steel enclosure
- High overload withstand capability
- For aggressive and non-aggressive media
- For measuring the pressure of liquids, gases and vapors
- Compact design
- Gasket-less

Application

The pressure transmitter SITRANS P220 for gauge pressure is used in the following industrial areas:

- Mechanical engineering
- Shipbuilding
- Power engineering
- Chemical industry
- Water supply

Design**Device structure without explosion protection**

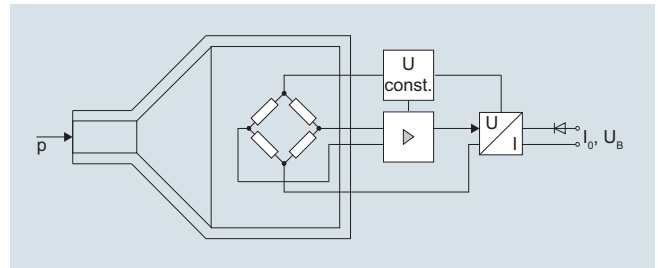
The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65), a M12 device plug (IP67), a cable (IP67) or a Quickon cable quick screw connection (IP67) connected electrically. The output signal is between 4 and 20 mA or 0 and 10 V.

Device structure with explosion protection

The pressure transmitter consists of a piezoresistive measuring cell with a diaphragm installed in a stainless steel enclosure. It can be used with a connector per EN 175301-803-A (IP65) or a M12 device plug (IP67) connected electrically. The output signal is between 4 and 20 mA.

Function

The pressure transmitter measures the gauge pressure of liquids and gases as well as the level of liquids.

Mode of operation

SITRANS P220 pressure transmitters (7MF1567-...), functional diagram

The stainless steel measuring cell has a thick-film resistance bridge to which the operating pressure p is transmitted through a stainless steel diaphragm.

The voltage output from the measuring cell is converted by an amplifier into an output current of 4 to 20 mA or an output voltage of 0 to 10 V DC.

The output current and voltage are linearly proportional to the input pressure.

Pressure Measurement

Single-range transmitters for general applications

SITRANS P220 for gauge pressure

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Technical specifications

Application	Gauge pressure measurement	Liquids, gases and vapors	Design	Weight	Approx. 0.090 kg (0.198 lb)
Mode of operation	Measuring principle	Piezoresistive measuring cell (stainless steel diaphragm)	Process connections	Electrical connections	See dimension drawings
Measured variable	Gauge pressure		Wetted parts materials	<ul style="list-style-type: none"> • Connector per EN 175301-803-A Form A with cable inlet M16x1.5 or ½-14 NPT or Pg 11 • M12 device plug • 2 or 3-wire (0.5 mm²) cable (∅ ± 5.4 mm) • Quickon cable quick screw connection 	
Inputs	Measuring range		Non-wetted parts materials	<ul style="list-style-type: none"> • Measuring cell • Process connection 	Stainless steel, mat.-No. 1.4016 Stainless steel, mat. No. 1.4404 (SST 316 L)
<ul style="list-style-type: none"> • Gauge pressure - Metric - US measuring range 	2.5 ... 1000 bar (36 ... 14500 psi) 30... 14500 psi		Enclosure	Stainless steel, mat. No. 1.4404 (SST 316 L)	
Output	Current signal	4 ... 20 mA	Rack	Plastic	
<ul style="list-style-type: none"> • Load • Auxiliary power U_B 	(U _B - 10 V)/0.02 A DC 7 ... 33 V (10 ... 30 V for Ex)		cables	PVC	
Voltage signal	0 ... 10 V DC		Certificates and approvals		
<ul style="list-style-type: none"> • Load • Auxiliary power U_B • Power consumption 	≥ 10 kΩ 12 ... 33 V DC < 7 mA at 10 kΩ		Classification according to pressure equipment directive (PED 2014/68/EU)	For gases of fluid group 1 and liquids of fluid group 1; complies with requirements of article 4, paragraph 3 (sound engineering practice)	
Ratiometric output	0 ... 90 %		Lloyd's Register of Shipping (LR) ¹⁾	12/20010	
<ul style="list-style-type: none"> • Load • Auxiliary power U_B • Power consumption 	≥ 10 kΩ 5 V DC ± 10 % < 7 mA at 10 kΩ		Germanischer Lloyd (GL) ¹⁾	GL19740 11 HH00	
Characteristic curve	Linear rising		American Bureau of Shipping (ABS) ¹⁾	ABS_11_HG 789392_PDA	
Measuring accuracy	Error in measurement at limit setting incl. hysteresis and reproducibility	<ul style="list-style-type: none"> • Typical: 0.25 % of measuring span • Maximum: 0.5 % of measuring span 	Bureau Veritas (BV) ¹⁾	BV 271007A0 BV	
Step response time T ₉₉	< 5 ms		Det Norske Veritas (DNV) ¹⁾	A 12553	
Long-term stability			Drinking water approval (ACS) ¹⁾	ACS 15 ACC NY 360	
<ul style="list-style-type: none"> • Lower range value and measuring span 	0.25 % of measuring span/year		EAC ¹⁾	№ TC RU C-DE.ГБ05.B.00732 ОС НАНИО «ЦСВЭ»	
Influence of ambient temperature			CRN ²⁾	0F18659.5C	
<ul style="list-style-type: none"> • Lower range value and measuring span • Influence of power supply 	0.25 %/10 K of measuring span 0.005 %/V		Underwriters Laboratories (UL) ¹⁾	UL 20110217 - E34453 IEC UL DK 21845	
Conditions of use	Process temperature	-40 ... +120 °C (-40 ... +248 °F)	Explosion protection		
Ambient temperature	-25 ... +85 °C (-13 ... +185 °F)		Intrinsic safety "i" (only with current output)	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T125 °C Da/Db	
Storage temperature	-50 ... +100 °C (-58 ... +212 °F)		EC type-examination certificate	SEV 10 ATEX 0146	
Degree of protection (to EN 60529)	<ul style="list-style-type: none"> • IP 65 with connector per EN 175301-803-A • IP 67 with M12 device plug • IP 67 with cable • IP 67 with cable quick screw connection 		Connection to certified intrinsically-safe resistive circuits with maximum values:	U _i ≤ 30 V DC; I _i ≤ 100 mA; P _i ≤ 0.75 W	
Electromagnetic compatibility	<ul style="list-style-type: none"> • acc. IEC 61326-1/-2/-3 • acc. NAMUR NE21, only for ATEX versions and with a max. measuring deviation ≤ 1 % 		Effective internal inductance and capacity for versions with plugs per EN 175301-803-A and M12	L _i = 0 nH; C _i = 0 nF	
			CSA ²⁾	70006348	
				Class I, Division I, Groups A, B, C and D; Class II, Division 1, Groups E, F and G, Class III Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G, Class III A/Ex ia IIC T4 Ga/Gb A/Ex ia IIIC T125°C Da/Db	

¹⁾ For variants with output signal 0 ... 5 V and ratiometric output available soon.

²⁾ See ordering data for available versions.

Pressure Measurement
Single-range transmitters for general applications

SITRANS P220 for gauge pressure

Selection and ordering data					Article No.	Order code
SITRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version					7MF1567-	A
Accuracy typ. 0.25 %						
Wetted parts materials: stainless steel						
Non-wetted parts materials: stainless steel						
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.						
Measuring range	Overload limit		Burst pressure			
	Mini- mum	Max.				
For gauge pressure						
0 ... 2.5 bar (0 ... 36.3 psi)	-1 bar (-14.5 psi)	6.25 bar (90.7 psi)	25 bar (363 psi)		3BD	
0 ... 4 bar (0 ... 58 psi)	-1 bar (-14.5 psi)	10 bar (145 psi)	40 bar (870 psi)		3BE	
0 ... 6 bar (0 ... 87 psi)	-1 bar (-14.5 psi)	15 bar (217 psi)	60 bar (522 psi)		3BG	
0 ... 10 bar (0 ... 145 psi)	-1 bar (-14.5 psi)	25 bar (362 psi)	60 bar (870 psi)		3CA	
0 ... 16 bar (0 ... 232 psi)	-1 bar (-14.5 psi)	40 bar (580 psi)	96 bar (1392 psi)		3CB	
0 ... 25 bar (0 ... 363 psi)	-1 bar (-14.5 psi)	62.5 bar (906 psi)	150 bar (2176 psi)		3CD	
0 ... 40 bar (0 ... 580 psi)	-1 bar (-14.5 psi)	100 bar (1450 psi)	240 bar (3481 psi)		3CE	
0 ... 60 bar (0 ... 870 psi)	-1 bar (-14.5 psi)	150 bar (2175 psi)	360 bar (5221 psi)		3CG	
0 ... 100 bar (0 ... 1450 psi)	-1 bar (-14.5 psi)	250 bar (3625 psi)	600 bar (8702 psi)		3DA	
0 ... 160 bar (0 ... 2320 psi)	-1 bar (-14.5 psi)	400 bar (5801 psi)	960 bar (13924 psi)		3DB	
0 ... 250 bar (0 ... 3625 psi)	-1 bar (-14.5 psi)	625 bar (9064 psi)	1500 bar (21756 psi)		3DD	
0 ... 400 bar (0 ... 5801 psi)	-1 bar (-14.5 psi)	1000 bar (14503 psi)	2400 bar (34809 psi)		3DE	
0 ... 600 bar (0 ... 8702 psi)	-1 bar (-14.5 psi)	1500 bar (21755 psi)	3600 bar (52200 psi)		3DG	
0 ... 1000 bar (0 ... 14500 psi)	-1 bar (-14.5 psi)	1500 bar (21755 psi)	5000 bar (72520 psi)		3EA	
Other version, add Order code and plain text: Measuring range: ... up to ... bar (psi)					9AA	H1Y
Measuring ranges for gauge pressure						
0 ... 30 psi	-14.5 psi	75 psi	360 psi	*	4BE	
0 ... 60 psi	-14.5 psi	150 psi	580 psi	*	4BF	
0 ... 100 psi	-14.5 psi	250 psi	580 psi	*	4BG	
0 ... 150 psi	-14.5 psi	375 psi	870 psi	*	4CA	
0 ... 200 psi	-14.5 psi	500 psi	1390 psi	*	4CB	
0 ... 300 psi	-14.5 psi	750 psi	2170 psi	*	4CD	
0 ... 500 psi	-14.5 psi	1250 psi	3480 psi	*	4CE	
0 ... 750 psi	-14.5 psi	1875 psi	5220 psi	*	4CF	
0 ... 1000 psi	-14.5 psi	2500 psi	5220 psi	*	4CG	
0 ... 1500 psi	-14.5 psi	3750 psi	8700 psi	*	4DA	
0 ... 2000 psi	-14.5 psi	5000 psi	13920 psi	*	4DB	
0 ... 3000 psi	-14.5 psi	7500 psi	21750 psi	*	4DD	
0 ... 5000 psi	-14.5 psi	12500 psi	34800 psi	*	4DE	
0 ... 6000 psi	-14.5 psi	15000 psi	34800 psi	*	4DF	
0 ... 8700 psi	-14.5 psi	21755 psi	52200 psi	*	4DG	
0 ... 14500 psi	-14.5 psi	21755 psi	72520 psi	*	4EA	
Other version, add Order code and plain text: Measuring range: ... up to ... psi					9AA	H1Y
Output signal						
4 ... 20 mA; two-wire system; power supply 7 ... 33 V DC (10 ... 30 V DC for ATEX versions)					0	
0 ... 10 V; three-wire system; power supply 12 ... 33 V DC					10	
0 ... 5 V; 3-wire system; auxiliary power 7 ... 33 V DC					20	
Ratiometric 10 ... 90 %; 3-wire system; auxiliary power 5 V DC ± 10 %					30	
Explosion protection (only 4 ... 20 mA)						
None					0	
With explosion protection Ex ia IIC T4					1	
Electrical connection						
Connector per DIN EN 175301-803-A, stuffing box thread M16 (with coupling)					*	1
M12 device plug per IEC 61076-2-101						2
Connection via fixed mounted cable, 2 m (not for type of protection "Intrinsic safety i")						0 3
Quickon cable quick screw connection PG9 (not for type of protection "Intrinsic safety i")						0 4
Connector per DIN EN 175301-803-A, stuffing box thread 1/2"-14 NPT (with coupling)					*	5
Connector per DIN EN 175301-803-A, stuffing box thread PG11 (with coupling)					*	6
Fixed mounted cable, length 5 m						0 7
Special version						9
						N1Y
* Order code E21 required for complete configuration with CRN and cCSA _{US} Ex approval.						

Pressure Measurement

Single-range transmitters for general applications

1

SITRANS P220 for gauge pressure

Selection and ordering data

SITRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version

Accuracy typ. 0.25 %

Wetted parts materials: stainless steel

Non-wetted parts materials: stainless steel

Process connection

G½" male per EN 837-1 (½" BSP male) (standard for metric pressure ranges mbar, bar)

G½" male thread and G1/8" female thread

G¼" male per EN 837-1 (¼" BSP male)

7/16"-20 UNF male

¼"-18 NPT male (standard for pressure ranges inH₂O and psi) *

¼"-18 NPT female (Only for measuring ranges ≤ 60 bar (870 psi))

½"-14 NPT male

½"-14 NPT female (Only for measuring ranges ≤ 60 bar (870 psi))

7/16"-20 UNF female

M20x1.5 male

G1/4" to DIN 3852 Form E

G1/2" to DIN 3852 Form E

Special version

Version

Standard version *

Further designs

Supplement the Article No. with "-Z" and add Order code.

Quality Inspection Certificate (5-point characteristic curve test) according to IEC 60770-2 (not possible for measuring ranges > 0 ... 600 bar/0 ... 8 702 psi)

Oxygen version, free of oil and degreased (not in conjunction with explosion protection version)

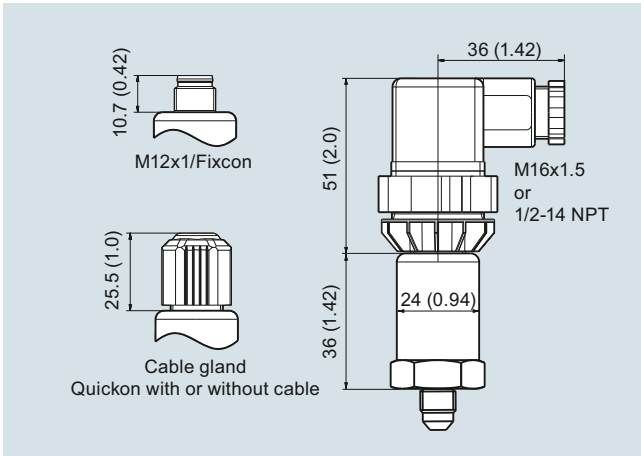
With CRN and cCSA_{US} Ex approval (only for measuring ranges 0 ... 30 psi bis 0 ... 8 700 psi)

* Order code E21 required for complete configuration with CRN and cCSA_{US} Ex approval..

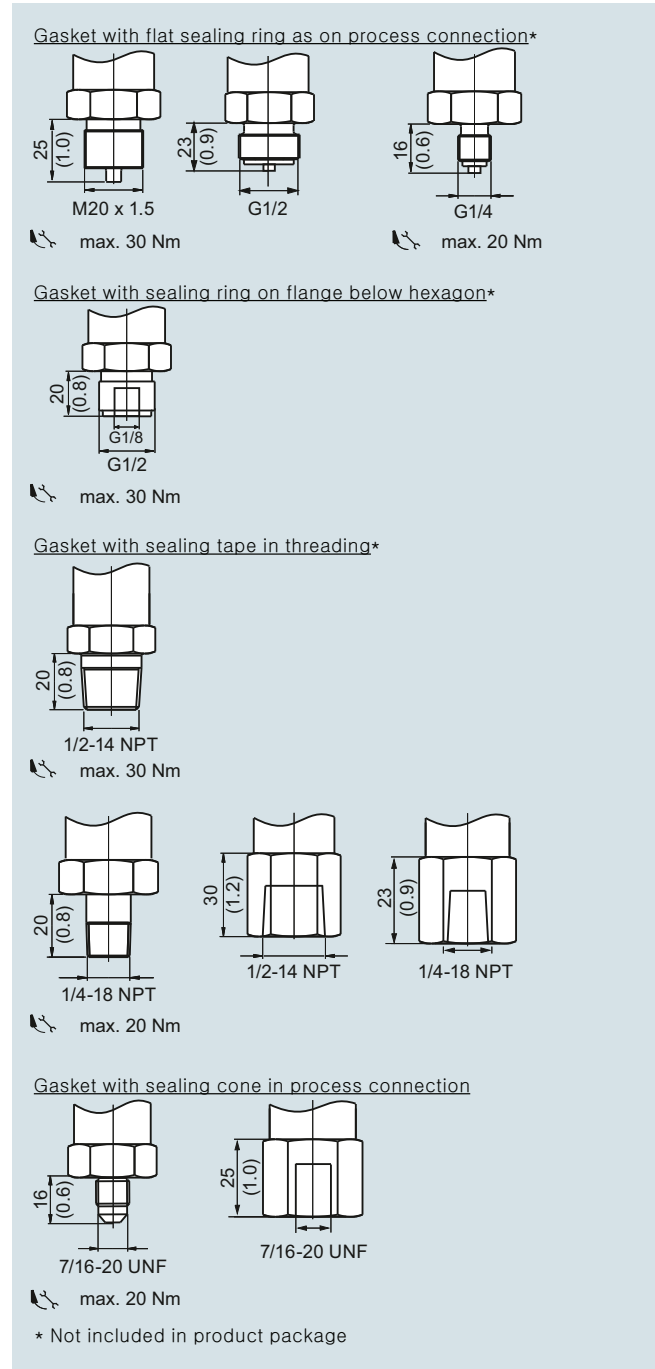
Article No. Order code

Article No.	Order code
7MF1567 - - - - -	A - - - - -
	B
	C
	D
	E
	F
	G
	H
	J
	P
	Q
	R
	Z
	P 1 Y
	1
	C11
	E10
	E21

Dimensional drawings



SITRANS P220, electrical connections, dimensions in mm (inch)



SITRANS P220, process connections, dimensions in mm (inch)

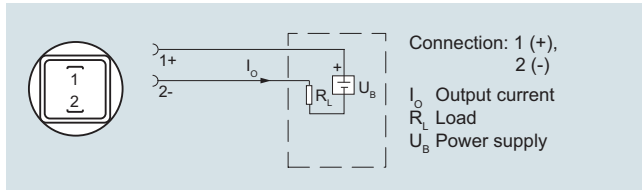
Pressure Measurement

Single-range transmitters for general applications

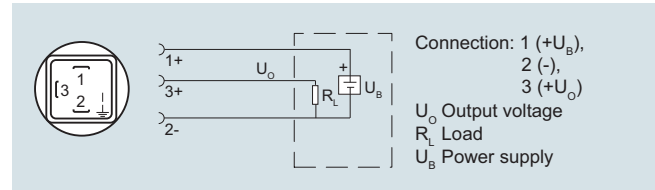
SITRANS P220 for gauge pressure

1

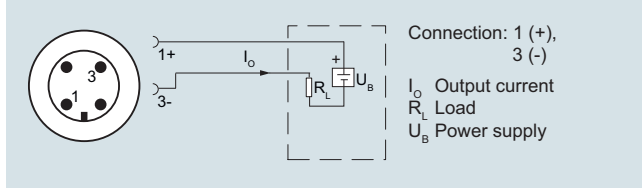
Schematics



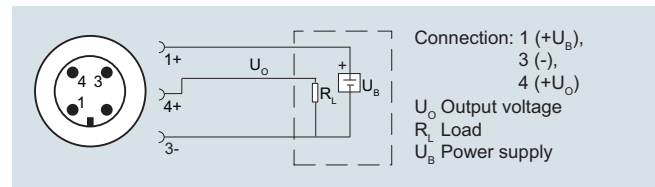
Connection with current output and connector per EN 175301



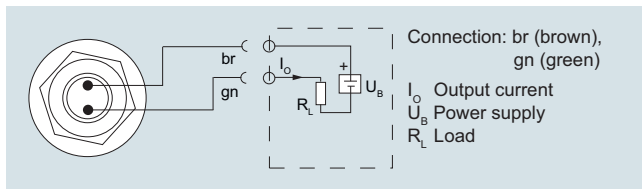
Connection with voltage output, ratiometric output and plug according to EN 175301



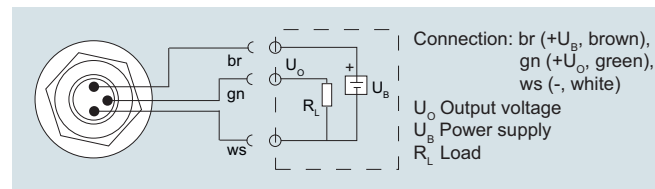
Connection with current output and M12x1 device plug



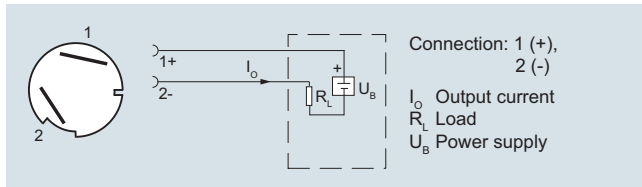
Connection with voltage output, ratiometric output and M12x1 device plug



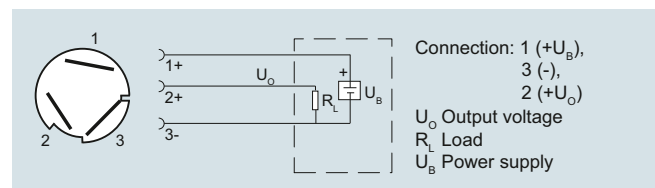
Connection with current output and cable



Connection with voltage output, ratiometric output and cable



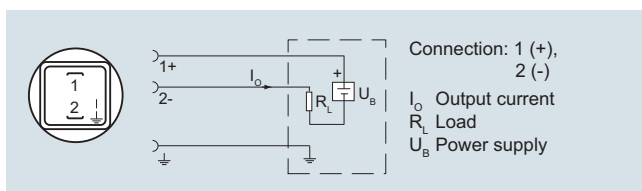
Connection with current output and cable quick screw connection Quickon



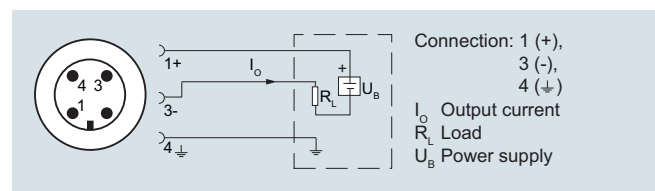
Connection with voltage output, ratiometric output and Quickon fast cable termination

Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with current output and M12x1 device plug (Ex)

EU Declaration of Conformity EU-Konformitätserklärung EU-Déclaration de Conformité



No. A5E38498463A/003

Manufacturer: Siemens AG

Hersteller:

Fabricant:

Address: DE-76181 Karlsruhe

Anschrift:

Adresse:

Product description: **Pressure transmitter / Druckmeßumformer**

Produktbezeichnung: **SITRANS P200; SITRANS P210; SITRANS P220**

Identificateur: **Type / Typ 7MF 156a-bcdef-ghjk**

a b c d e f g h j k see table Annex A / siehe Tabelle Anhang A

The product described above in the form as delivered is in conformity with the provisions of the following European Directives:

Das bezeichnete Produkt stimmt in der von uns in Verkehr gebrachten Ausführung mit den Vorschriften folgender Europäischer Richtlinien überein:

Le produit mentionné ci-dessus, tel qu'il est livré, est conforme aux dispositions des Directives Européennes suivantes :

- | | |
|------------|--|
| 2014/30/EU | Directive of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to electromagnetic compatibility |
| EMC | <i>Richtlinie des Europäischen Parlaments und des Rates zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit</i>
<i>Directive du parlement Européen et du conseil relative à l'harmonisation des législations des États membres concernant la compatibilité électromagnétique</i> |
| 2014/34/EU | Directive of the European Parliament and the Council on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres |
| ATEX | <i>Richtlinie des Europäischen Parlaments und des Rates zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen</i>
<i>Directive du parlement Européen et du conseil relative à l'harmonisation des législations des États membres concernant les appareils et les systèmes de protection destinés à être utilisés en atmosphères explosibles</i> |
| 2011/65/EU | Directive of the European Parliament and the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment. |
| RoHS | <i>Richtlinie des Europäischen Parlaments und des Rates zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten.</i>
<i>Directive du parlement Européen et du relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques</i> |

Karlsruhe, 01.03.2017

Siemens Aktiengesellschaft

Volker Rissland,
Research & Development / Entwicklung
(Name, function / Funktion)

Jürgen Pflaum,
Quality / Qualität
(Name, function / Funktion)

signature / Unterschrift

signature / Unterschrift

Annex A is integral part of this declaration.
Anhang A ist integraler Bestandteil dieser Erklärung.
L'annexe A fait partie intégrante de la présente déclaration

This declaration certifies the conformity to the specified directives but contains no assurance of properties.

The safety documentation accompanying the product shall be considered in detail.

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie nach §443 BGB.

Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

La présente déclaration atteste la conformité aux Directives citées. Elle n'est pas assimilable à un descriptif justifiant certaines propriétés.

La documentation relative à la sécurité accompagnant le produit doit être examiné en détail.

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme; Managing Board: Joe Kaeser, Chairman, President and Chief Executive Officer; Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Siegfried Russwurm, Ralf P. Thomas; Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

Annex A to the EU Declaration of Conformity
Anhang A zur EU-Konformitätserklärung
Annexe A de la Déclaration de conformité

No. A5E38498463A/003

Product description: Pressure transmitter / Druckmeßumformer
Produktbezeichnung SITRANS P200; SITRANS P210; SITRANS P220
Identificateur: Type / Typ 7MF 156a-bcdef-ghjk
 a b c d e f g h j k see table Annex A / siehe Tabelle Anhang A

Conformity to the Directives indicated on page 1 is assured through the application of the following standards (depending on versions):

Die Konformität mit den auf Blatt 1 angeführten Richtlinien wird nachgewiesen durch die Einhaltung folgender Normen (variantenabhängig):

La conformité aux Directives indiquées sur la page 1 est garantie par l'application des normes suivantes (selon les versions):

Directive Richtlinie Directive	Standard / Reference number Norm / Referenznummer Norme / référence	Edition Ausgabedatum Edition	a=	b=	c=	d=	e + f	g=	h=	j=	k=
2014/30/EU	EN 61326-1 *	2013	5,6,7	3,4,5,6 9	A,B,C D,E	A,B,C,D E,F,G	00, 01 10, 20 30	1,2,3,4 5,6,7,9	A,B,C,D E,F,G,H J,P,Q,R Z	A,B,C,D Z	1,3
2014/30/EU	EN 61326-2-3 *	2013									
2014/30/EU	EN 55011	2009/A1:2010									
2014/30/EU	EN 61000-6-2	2005									
2014/30/EU	EN 61000-6-3	2007/A1:2011									
2011/65/EU	EN 50581	2012									
2014/34/EU	EN 60079-0	2012/A11:2013									
2014/34/EU	EN 60079-11	2012									
2014/34/EU	EN 60079-26	2007				01	1,2,5,6 9				

* all environments included / beinhaltet alle Umgebungen / dans tout type d'environnement

Certificates:
 Zertifikate:
 Certificat:

EC-type examination certificate EG-Baumusterprüfbescheinigung Certificat évaluation de type	Marking Kennzeichnung Marquage	a=	b=	c=	d=	e + f	g=	h=	j=	k=
SEV 10 ATEX 0146	II 1/2 GD	5,6,7	3,4,5,6 9	A,B,C D,E	A,B,C,D E,F,G	01	1,2,5,6 9	A,B,C,D E,F,G,H J,P,Q,R Z	A,B,C,D Z	1,3

Inspection / Surveillance:
 Kontrolle / Überwachung:
 Controle / Supervision:

Directive Richtlinie Directive	Notified Body Product Quality Assurance Benannte Stelle Qualitätssicherung Produktion Organisme notifié	No.:
2014/34/EU	ATEX Sira Certification Service, CSA Group Testing UK Ltd – Unit 6, Hawarden Industrial Park, Hawarden, Deeside, CH5 3US, United Kingdom	0518