

Overview

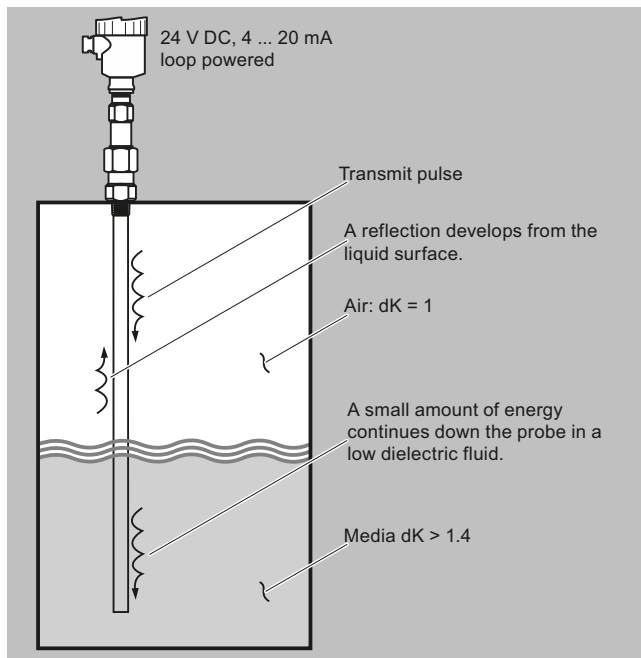
Introduction

Guided Wave Radar transmitters use TDR (time domain reflectometry).

Time Domain Reflectometry (TDR)

TDR uses pulses of electromagnetic (EM) energy to measure distances or levels. When a pulse reaches a dielectric discontinuity (created by media surface), part of the energy is reflected. The greater the dielectric difference, the greater the amplitude (strength) of the reflection.

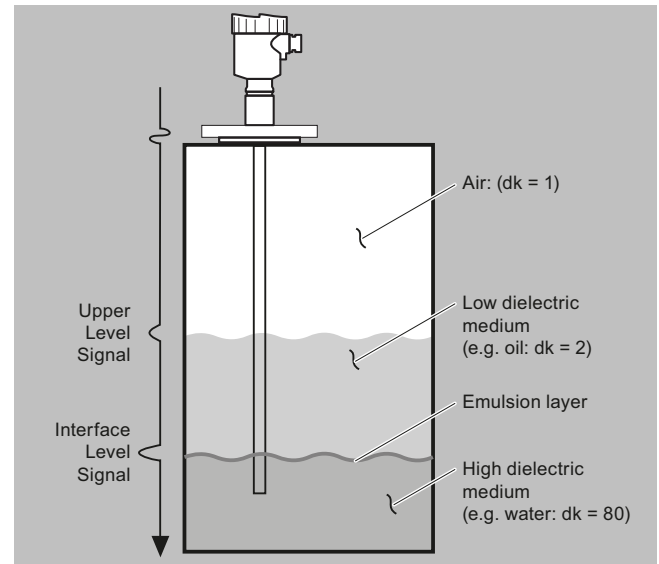
The SITRANS LG includes a transmitter and waveguide that has a characteristic impedance in air and is used as a probe. When part of the probe is immersed in a material other than air, there is lower impedance due to the increase in the dielectric. When an EM pulse is sent down the probe and meets the dielectric discontinuity, a reflection is generated.



Mode of operation

Interface Detection

The SITRANS LG, is a transmitter capable of measuring both an upper level and an interface level. The upper liquid must have a dielectric constant between 1.6 and 10 and the two liquids have a difference in dielectric constants greater than 10. A typical application would be oil over water, with the upper layer of oil being non-conductive with a dielectric constant of approximately 2 and the lower layer of water being very conductive with a dielectric constant of approximately 80. This interface measurement can only be accomplished when the dielectric constant of the upper medium is lower than the dielectric constant of the lower medium.



Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Overview



The Siemens SITRANS LG series are guided wave radar transmitters for level, level/interface, and volume measurement of liquids and solids. The SITRANS LG product line can handle changes in process conditions, high temperatures and pressures, and steam.

Benefits

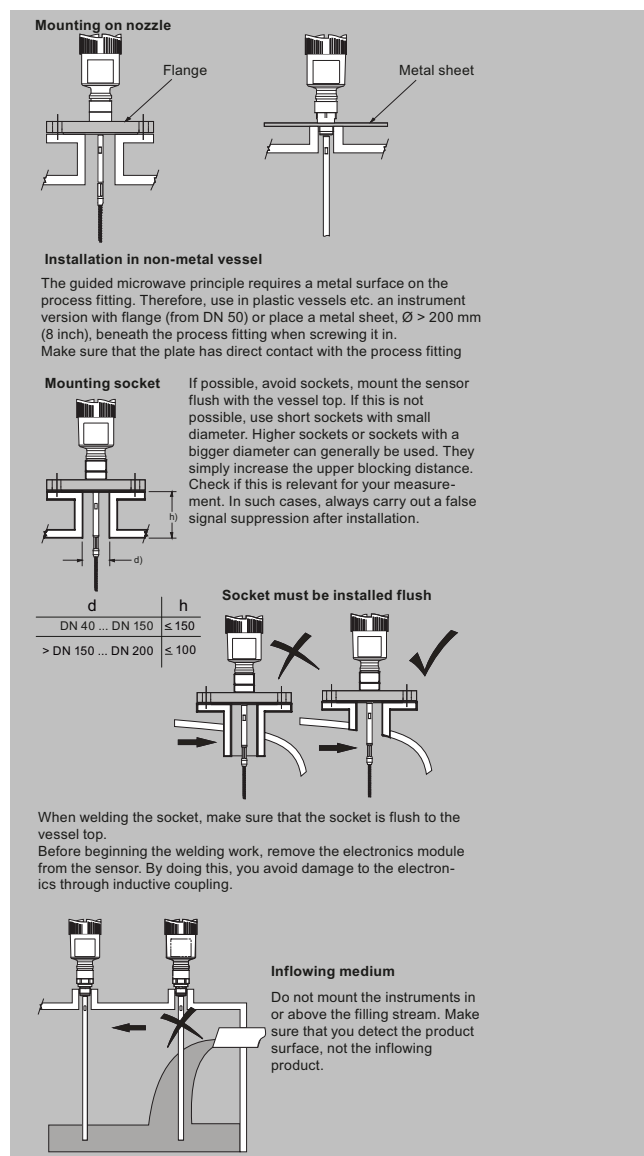
- High accuracy to ± 2 mm
- Advanced Diagnostics available for high degree of safety
- Simple menu driven display offers ease of setup
- Large range of options offers reliability in most continuous level measurement applications
- Ease of maintenance through module design and field replaceable and adjustable probe options
- Perfect solution for wide range of applications from storage to interface with options for extreme pressure and temperature conditions
- Universally applicable in liquids, interface, slurries and solids
- Highly immune to buildup using auto learn function
- Ability to measure in loss of echo situations with probe end tracking
- Suitable for API 2350
- Convenient access using USB and remote interface accessories

Application

The SITRANS LG series comes in four different models, depending on the applications, level of performance, and functionality required:

- SITRANS LG240 offers configuration options for your hygienic and corrosive application requirements
- SITRANS LG250 Highly flexible solution for liquid level and interface applications. Extremely versatile offering solutions for storage, separation of materials or difficult ammonia applications
- SITRANS LG260 Ideal for measuring level in medium range solids applications including; grains, plastics, and cement
- SITRANS LG270 offers configuration options for extreme conditions including high temperature and high pressure applications such as: harsh applications found in chemical, HPI and energy industries for example, LPG gas tanks, steam boilers and distillation columns

Configuration



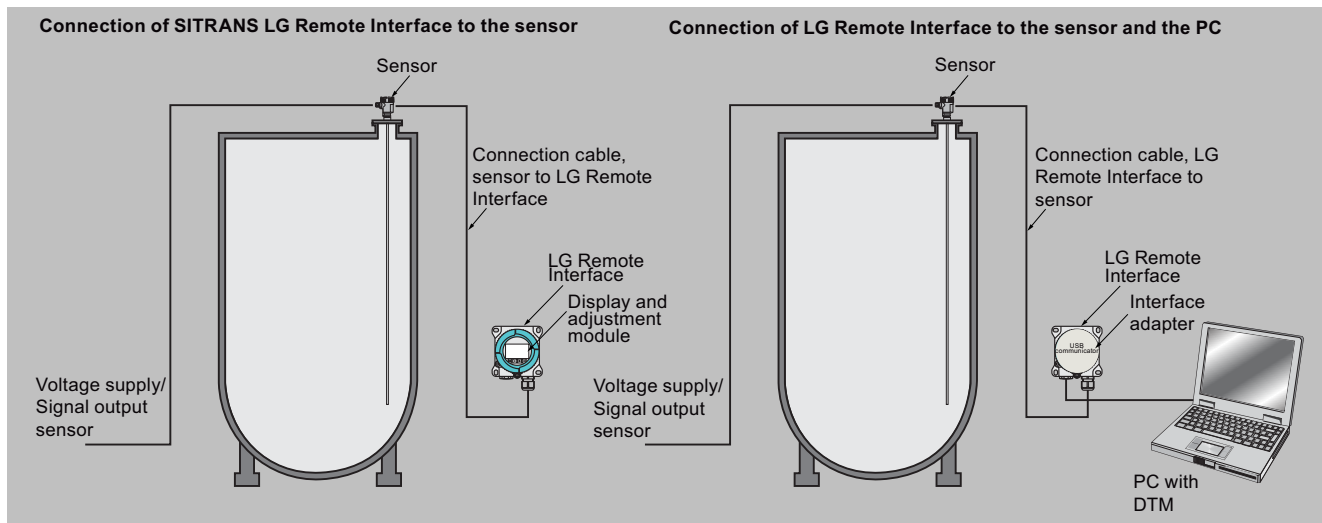
SITRANS LG Series installation

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Configuration (continued)



SITRANS LG Remote Interface installation

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Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG240 Guided radar level transmitter Continuous, contact, 32 m (105 ft) range. Monitors level and interface in aggressive liquids. Ideal for hygienic applications.	Article No.										Order Code		
	7ML5880-	●	●	●	●	●	-	●	●	●	●	●	●
Bolting DN 40, PN 40 DIN 11851/1.4435 (BN2)						1	1						
Bolting DN 40, PN 40 DIN 11851/PTFE-TFM 1600						1	2						
Bolting DN 50, PN 25 DIN 11851/1.4435(BN2)						1	3						
Bolting DN 50, PN 25 DIN 11851/PTFE-TFM 1600						1	4						
Bolting DN 65, PN 25 DIN 11851/PTFE-TFM 1600						1	5						
Flange DN 25, PN 40 Form C, DIN 2501/PTFE-TFM 1600						2	0						
Flange DN 40, PN 40 Form C, DIN 2501/PTFE-TFM 1600						2	1						
Flange DN 50, PN 40 Form C, DIN 2501/PTFE-TFM 1600						2	2						
Flange DN 50, PN 40 Form V13, DIN 2513/PTFE-TFM 1600						2	3						
Flange DN 65, PN 40 Form C, DIN 2513/PTFE-TFM 1600						2	4						
Flange DN 80, PN 40 Form C, DIN 2501/PTFE-TFM 1600						2	5						
Flange DN 100, PN 16 Form C, DIN 2501/PTFE-TFM 1600						2	6						
Flange DN 80, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600						2	7						
Flange DN 100, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600						2	8						
Flange 2" 150 lb RF, ASME B16.5/PTFE-TFM 1600						3	0						
Flange 2" 300 lb RF, ASME B16.5/PTFE-TFM 1600						3	1						
Flange 3" 150 lb RF, ASME B16.5/PTFE-TFM 1600						3	2						
Flange 4" 150 lb RF, ASME B16.5/PTFE-TFM 1600						3	3						
Note: The pressure limit for all PTFE coated versions is 16 bar (per manual).													
Electronics													
Two-wire 4 ... 20 mA/HART										0			
Four-wire Modbus ³⁾¹³⁾										1			
Two-wire 4 ... 20 mA/HART with SIL qualification ⁹⁾										2			
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ³⁾¹³⁾										3			
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ³⁾¹³⁾										4			
PROFIBUS PA ⁹⁾										5			
FOUNDATION Fieldbus ⁹⁾										6			
Seal/Process temperature													
Without glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁾										A			
FFKM (Kalrez 6221)/-20 ... 150 °C (-4 ... +302 °F) ⁴⁾										B			
EPDM (Freudenberg 70 EPDM 291)/-20 ... 130 °C (-4 ... +266 °F) ⁴⁾										C			
Housing/Protection/Cable													
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC													
Plastic IP66/IP67 M20 x 1.5/blind stopper											A		
Plastic IP66/IP67 1/2" NPT/blind stopper											B		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											C		
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper											D		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											E		
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper											F		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											G		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper											H		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											J		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper											K		
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											L		
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper											M		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											N		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											P		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											Q		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											R		
Aluminum single chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											W		
Aluminum double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											X		
Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland brass nickel-plated											Y		

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG240 Guided radar level transmitter Continuous, contact, 32 m (105 ft) range. Monitors level and interface in aggressive liquids. Ideal for hygienic applications.										Article No.	Order Code			
										7ML5880-	●	●	●	●
Stainless steel double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated														
Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ¹⁰⁾													Q	2 A
Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ¹⁰⁾													Q	2 B
Lengths														
<u>Rod ø 8 mm (0.31 inch)/1.4435 (Basle standard 300 ... 4 000 mm)</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ⁶⁾														0
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁶⁾														1
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁶⁾														2
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁶⁾														3
<u>Rod ø 10 mm (0.24 inch)/PFA (300 ... 4 000 mm)</u>														
300 mm (11.81 inch) ⁶⁾													R	1 A
500 mm (19.69 inch) ⁶⁾													R	1 B
300 ... 1 000 mm (11.81 ... 39.37 inch) ⁶⁾													R	1 C
1 001 ... 5 000 mm (39.41 ... 78.74 inch) ⁶⁾													R	1 D
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁶⁾													R	1 E
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁶⁾													R	1 F
<u>Cable ø 4 mm (0.16 inch)/PFA (500 ... 32 000 mm)</u>														
500 mm (9.69 inch)													R	1 G
501 ... 1 000 mm (19.72 ... 39.37 inch)													R	1 H
1 001 ... 2 000 mm (39.41 ... 78.74 inch)													R	1 J
2 001 ... 4 000 mm (78.78 ... 157.40 inch)													R	1 K
4 001 ... 5 000 mm (157.52 ... 196.85 inch)													R	1 L
5 001 ... 10 000 mm (196.89 ... 393.70 inch)													R	1 M
10 001 ... 15 000 mm (393.74 ... 590.55 inch)													R	1 N
15 001 ... 20 000 mm (590.59 ... 787.40 inch)													R	1 P
20 001 ... 25 000 mm (787.44 ... 984.25 inch)													R	1 Q
25 001 ... 32 000 mm (984.29 ... 1 259.52 inch)													R	1 R
<u>Exchange, rod ø 8 mm (0.31 inch)/1.4435 (BN2), electropolished (Ra < 0.38 µm)</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ⁶⁾													R	2 A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁶⁾													R	2 B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁶⁾													R	2 C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁶⁾													R	2 D

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "-Z" to Article No. and specify Order code(s).	
Supplementary electronics	
Without	A00
Additional current output 4 ... 20 mA ¹⁰⁾	A01
Indicating/adjustment module	
Without	E00
Mounted	E01
Laterally mounted	E02
Language of display	
German	L00
English	L01

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Selection and ordering data (continued)

Selection and Ordering data	Order code
French	L02
Dutch	L03
Italian	L04
Spanish	L05
Portuguese	L06
Russian	L07
Chinese	L08
Japanese	L09
No language pre-set	L10
Operating instructions	
German	M00
English	M01
French	M02
Spanish	M03
Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	Y01
Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm	Y02
Cleaning included certificate: oil, grease and silicone free	W01
Remote electronic cable lengths: 2 m (6.6 ft). Only available with Housing options Q2A and Q2B	Y10
Remote electronic cable lengths: 5 m (16.4 ft). Only available with Housing options Q2A and Q2B	Y11
Remote electronic cable lengths: 10 m (32.8 ft). Only available with Housing options Q2A and Q2B	Y12
Identification label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y17
Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y18
Material Inspection certificate 3.1 of EN 10204	C05
3.1-Inspection Certificate for instrument (EN 10204) ⁸⁾	C12
Inspection certificate 3.1 (EN 10204, NACE MR 0175) - material ⁸⁾ ¹⁹⁾	D07
Note: 316L probes include NACE MR 0175 and MR 0103, non 316L probes include MR 0175 only and plated flange designs are not available with NACE certificate.	
3.1-Inspection Certificate for instrument with test data (EN 10204) ⁸⁾	C25
2.2-Factory certificate for material (EN 10204) ⁸⁾	C15
Quality and test plan ⁸⁾	C26
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN 10204) ⁸⁾	C13
X-ray test + 3.1 certificate/instrument ⁸⁾	C14
Positive material identification test + 3.1 certificate/instrument ⁸⁾	C16
Roughness test + 3.1 certificate/instrument ⁸⁾	C18
Pressure test + 3.1 certificate/instrument ⁸⁾	C31
Helium leak test + 3.1 certificate/instrument ⁸⁾	C32
Ferrite measuring accuracy to DIN 32514-1 + 3.1 certificate/instrument ⁸⁾	C60
Pressure test according to NORSOK + 3.1 certificate/instrument ⁸⁾	C61
5 point calibration certificate (min. length 300 mm) ⁸⁾	C62

Selection and ordering data (continued)

Selection and Ordering data	Article No.
Operating Instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Accessories	
SITRANS LG series/SITRANS RD150 sensor display module	A5E34143449
SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
SITRANS LG, USB communicator	A5E35192015
SITRANS LG, Mounting eye M12 x 20	PBD:51041448
SITRANS LG, Mounting spring	PBD:51041449
Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
SITRANS RD100, loop powered display -see Chapter 7	7ML5741-.....
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....
For applicable back up point level switch - see point level measurement section	

Note: some configuration options are not available. For restriction information see the online PIA configuration tool.

- 1) Some approvals are not available with Plastic and Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- 2) Available only with Rod ø 10 mm/PFA and Cable ø 4 mm/PFA Length options.
- 3) Available only with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01.
- 4) Not available with Remote Housing/Protection/Cable options Q2A and Q2B.
- 5) Not available with Electronic option 5.
- 6) Not available with Y02.
- 7) Available only with Electronic options 0, 2, and 6.
- 8) Listed Certificates are not available with all configurations, please contact factory for more information.
- 9) Available only with Supplementary electronic option A00.
- 10) Not available with Indicating/adjustment module option E02.
- 11) Available only with Electronics options 0, 2, and 5.
- 12) Some approvals are not available with Remote or Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- 13) Available only with Double chamber, Metallic Housing/Protection/Cable options and certain glands.
- 14) Available only with Electronics options 0, 2, 5, 6.
- 15) Available only with Electronics options 0 and 2.
- 16) Available only with Electronics options 0 ... 4.
- 17) Not available with some Seal/Process Temperature options.
- 18) Available only with Electronic options 0, 2, 3, and 4.
- 19) Available only with 316L Probes. NACE is not available with coated, plated, or hygienic connections.

Note: Please consult manual for further detail.

	Article No.	Order Code
SITRANS LG250 Guided radar level transmitter	7ML5881- ● ● ● ● ● - ● ● ● ●	● ● ●
Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.		
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Approvals		
General purpose (CSA, FM, CE)	0 A	
Shipping approval ⁽⁴⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽¹³⁾	0 B	
Overfill protection (WHG; VLAREM) ⁽⁹⁾⁽¹⁰⁾⁽¹³⁾	0 C	
ATEX II 1G, ½G, 2G Ex ia IIC T6 ⁽¹⁰⁾⁽¹³⁾	0 E	
ATEX II 1G, ½G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁽¹⁰⁾⁽¹³⁾	0 F	
ATEX II 1G, ½G, 2G Ex ia IIC T6 + shipping approval ⁽⁴⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽¹³⁾	0 G	
ATEX II 1G, ½G 2G Ex ia IIC + ATEX II 1D, ½D, 2D IP6x ⁽¹¹⁾⁽¹³⁾	0 H	
ATEX II ½G, 2G Ex d ia IIC T6 ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	0 J	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	0 K	
ATEX II 1/2G, 2G Ex d IIC T6 ⁽¹⁾⁽¹¹⁾⁽¹⁴⁾	0 L	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	0 M	

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.	Article No.										Order Code		
	7	M	L	5	8	8	1	-					
ATEX II 1D, 1/2D, 2D IP6x T ¹⁾ 13)14)	0	N											
ATEX II 1G, II 1/2G, II 2G Ex ia IIC T6...T1 Ga, Ga/Gb, Gb /IEC Ex ia IIC T6...T1 Ga, Ga/Gb, Gb ¹⁻³⁾	0	W											
ATEX II 1/2G, II 2G Ex db IIC T6 ... T1 Ga/Gb, Gb / IEC Ex db IIC T6 ... T1 Ga/Gb, Gb ¹³⁾¹⁴⁾¹⁸⁾	1	K											
ATEX II 1/2G, II 2G Ex d ia IIC T6 ... T1 Ga/Gb, Gb + Ship approval ²⁾⁶⁾⁸⁾¹¹⁾¹²⁾¹³⁾	7	A											
ATEX II 1/2G, II 2G Ex db IIC T6 ... T1 Ga/Gb, Gb + Ship approval ¹⁾⁶⁾⁸⁾¹¹⁾¹³⁾	7	B											
ATEX II 1/2G, II 2G Ex db IIC T6 ... T1 Ga/Gb, Gb + Overfill protection (WHG, VLAREM) ¹⁾¹⁾¹⁴⁾	7	P											
IEC Ex ia IIC T6 ¹⁰⁾¹³⁾	0	P											
IEC Ex ia IIC T6 + IEC IP6x T tD ¹⁾¹⁴⁾¹⁵⁾	0	Q											
IEC Ex d ia IIC T6 ²⁾⁸⁾¹¹⁾¹²⁾¹³⁾	0	R											
IEC Ex d ia IIC T6 + IEC IP6x T tD ²⁾⁸⁾¹¹⁾¹²⁾¹³⁾¹⁵⁾	0	S											
IEC Ex d IIC T6 ¹⁾¹¹⁾¹⁴⁾	0	T											
IEC Ex d IIC T6 + IEC IP6x T tD ¹⁾¹¹⁾¹⁴⁾	0	U											
IEC Ex db IIC T6...T1 Ga/Gb, Gb + Ship approval ¹⁾⁶⁾⁸⁾¹¹⁾¹³⁾¹⁴⁾	7	C											
IEC Ex ia IIC T6...T1 Ga, Ga/Gb, Gb + Ship approval ⁶⁾⁸⁾¹³⁾¹⁶⁾	7	D											
IEC Ex d ia IIC T6...T1 Ga/Gb, Gb + Ship approval ²⁾⁶⁾⁸⁾¹¹⁾¹³⁾¹⁵⁾	7	E											
FM (NI) Class I, Div. 2, Groups A, B, C, D ³⁾⁸⁾¹³⁾¹⁷⁾	1	A											
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁵⁾⁸⁾¹³⁾	1	B											
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾⁸⁾¹¹⁾¹²⁾¹³⁾	1	C											
FM (XP) Class I, Div. 1, Groups A, B, C, D ²⁾¹¹⁾¹³⁾¹⁴⁾	1	D											
FM (NI) Class I, II, III, Div. 2, Groups A, B, C, D, F, G + Ship approval ⁴⁾⁶⁾⁸⁾¹³⁾¹⁷⁾	7	F											
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ⁶⁾⁸⁾¹³⁾¹⁶⁾	7	G											
FM (XP-AIS) Class I, Div. 1, Groups A, B, C, D, + Ship approval ⁶⁾⁸⁾¹¹⁾¹³⁾¹⁶⁾	7	H											
FM (XP) Class I, Div. 1, Groups A, B, C, D + Ship approval ²⁾⁶⁾⁸⁾¹³⁾¹⁴⁾	7	J											
CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP) Class II, III, Div. 1, Groups E, F, G ¹⁾	1	E											
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁵⁾¹³⁾	1	F											
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾⁸⁾¹¹⁾¹²⁾¹³⁾	1	G											
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁸⁾¹³⁾¹⁴⁾¹⁸⁾	1	H											
CSA (NI) Class I, II, III Div. 2, Groups A, B, C, D, F, G + Ship approval ¹⁾⁶⁾¹³⁾	7	K											
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ⁶⁾¹³⁾¹⁶⁾	7	L											
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ⁶⁾⁸⁾¹¹⁾³²⁾	7	M											
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ⁶⁾⁸⁾¹³⁾¹⁴⁾¹⁸⁾	7	N											
NEPSI Ex ia IIC T6 ⁵⁾¹³⁾	2	A											
NEPSI Ex ia IIC T6 + DIP A20/21 TA T ^{*1)13)}	2	B											
NEPSI Ex d ia IIC T6 ²⁾⁸⁾¹¹⁾¹³⁾	2	C											
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ^{*2)8)11)13)}	2	D											
NEPSI Ex d IIC T6 ¹⁾¹¹⁾¹³⁾¹⁴⁾	2	E											
NEPSI Ex d IIC T6 + DIP A20/21TA T ^{*1)11)13)14)}	2	F											
NEPSI DIP A20/21 TA T ^{*1)13)14)}	2	G											
INMETRO Ex ia IIC T6 ... T1 ⁵⁾¹³⁾	3	A											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ¹⁾¹¹⁾¹³⁾	3	B											
INMETRO Ex d ia IIC T6 ... T1 ²⁾⁸⁾¹¹⁾¹³⁾	3	C											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ¹⁾⁸⁾¹¹⁾¹³⁾	3	D											

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.		Article No. 7ML5881- ● ● ● ● ● - ● ● ● ● ●										Order Code ● ● ●		
INMETRO Ex d IIC T6 ... T1 ¹⁾¹¹⁾¹³⁾¹⁴⁾		3	E											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ¹⁾¹¹⁾¹³⁾¹⁴⁾		3	F											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ¹⁾¹¹⁾¹³⁾¹⁴⁾		3	G											
KOSHA Ex d IIC T6 ... T1 – KE ¹⁾¹¹⁾¹³⁾¹⁴⁾		4	A											
Korea KC ex free area		6	A											
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ¹³⁾		5	A											
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ¹⁾¹³⁾		5	B											
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ²⁾⁸⁾¹¹⁾¹³⁾		5	C											
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ²⁾⁸⁾¹¹⁾¹³⁾		5	D											
GOST-R/EAC 1 Ex d IIC T1 ... T6 X ¹⁾¹¹⁾¹³⁾		5	E											
GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ¹⁾¹¹⁾¹³⁾		5	F											
GOST-R/EAC Ex t IIIC T ... IP66 ¹⁾¹³⁾		5	G											
Note: Version/Material, Process fitting/Material, and Length options are available only with options of corresponding type.														
Probe version/Material														
Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316 ¹⁾⁹⁾²⁰⁾			A											
Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ¹⁾⁹⁾²⁰⁾			B											
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ⁹⁾¹⁹⁾²⁰⁾			C											
Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ⁹⁾¹⁹⁾²⁰⁾			D											
Probe exchangeable rod ø 8 mm (0.31 inch)/316L ⁹⁾¹⁹⁾			E											
Probe exchangeable rod ø 12 mm (0.47 inch)/316L ⁹⁾¹⁹⁾			F											
Probe coax version ø 21.3 mm (0.84 inch) with single hole/316L ⁹⁾¹⁹⁾²⁰⁾			G											
Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/316L ¹⁾⁹⁾²⁰⁾			H											
Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ⁹⁾¹⁹⁾²⁰⁾			K											
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/Alloy C22 (2.4602) ⁹⁾			L											
Probe exchangeable cable ø 4 mm (0.16 inch) with centre weight/Alloy C22 (2.4602) ⁹⁾			M											
Probe exchangeable rod ø 8 mm (0.31 inch)/Alloy C22 (2.4602) ⁹⁾			N											
Probe exchangeable rod ø 12 mm (0.47 inch)/Alloy C22 (2.4602) ⁹⁾			P											
Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/Alloy C22 (2.4602) ⁹⁾			Q											
Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602) ⁹⁾			R											
Probe exchangeable rod ø 8 mm (0.31 inch)/ Duplex (1.4462) ⁹⁾			S											
Exchangeable rod ø 12 mm (0.47 inch)/Alloy C22 and 400 (2.4360) ⁹⁾			T											
Exchangeable coated cable ø 4 mm with uncoated centering weight/PFA and 316 ²¹⁾²⁴⁾³⁰⁾³⁵⁻³³⁶⁾			U											
Process fitting/Material														
Thread G 3/4" (DIN 3852-A) PN 6/316L								0	0					
Thread 3/4" NPT (ASME B1.20.1) PN 6/316L								0	1					
Thread G 3/4" (DIN 3852-A) PN 40/316L								0	2					
Thread 3/4" NPT (ASME B1.20.1) PN 40/316L								0	3					
Thread G 3/4" (DIN 3852-A) PN 100 / 316L ²²⁾								0	4					
Thread 3/4" NPT (ASME B1.20.1) PN 100/316L ²²⁾								0	5					
Thread G 1" (DIN 3852-A) PN 40/316L								0	6					
Thread 1" NPT (ASME B1.20.1) PN 40/316L								0	7					
Thread G 1" (DIN 3852-A) PN 100/316L ²²⁾								0	8					
Thread 1" NPT (ASME B1.20.1) PN 100/316L ²²⁾								1	0					
Thread G 1 1/2" (DIN 3852-A) PN 40/316L								1	1					
Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L								1	2					
Thread G1 1/2" (DIN 3852-A) PN 100/316L ²²⁾								1	3					
Thread 1 1/2" NPT (ASME B1.20.1) PN 100/316L ²²⁾								1	4					
Thread 2 NPT PN 40, ASME B1.20.1/316L ²³⁾²⁴⁾								1	5					
Flange DN 25 PN 40 Form C, DIN 2501/316L								2	0					
Flange DN 25 PN 40 Form F, DIN 2501/316L								2	1					
Flange DN 40 PN 40 Form C, DIN 2501/316L								2	2					
Flange DN 50 PN 40 Form C, DIN 2501/316L								2	3					
Flange DN 50 PN 40 Form V13, DIN 2513/316L								2	4					

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.	Article No.										Order Code		
	7ML5881-	●	●	●	●	●	-	●	●	●	●	●	●
Flange DN 80 PN 40 Form C, DIN 2501/316L								2	5				
Flange DN 80 PN 40 Form V13, DIN 2501/316L								2	6				
Flange DN 100 PN 16 Form C, DIN 2501/316L								2	7				
Flange DN 100 PN 16 Form V13, DIN 2501/316L								2	8				
Flange DN 100 PN 40 Form C, DIN 2501 /316L								3	0				
Flange DN 100 PN 40 Form V13, DIN 2513/316L								3	1				
Flange DN 150 PN 16 Form C, DIN 2501/316L								3	2				
Flange DN 50 PN 40 EN 1092-1 Form B1/316L								3	3				
Flange DN 80 PN 40 EN 1092-1 Form B1/316L								3	4				
Flange 1" 150 lb RF, ASME B16.5/316L								3	5				
Flange 1 1/2" 150 lb RF, ASME B16.5/316L								3	6				
Flange 2" 150 lb RF, ASME B16.5/316L								3	7				
Flange 2" 300 lb RF, ASME B16.5/316L								3	8				
Flange 3" 150 lb RF, ASME B16.5/316L								4	0				
Flange 3" 300 lb RF, ASME B16.5/316L								4	1				
Flange 4" 150 lb RF, ASME B16.5/316L								4	2				
Flange 4" 300 lb RF, ASME B16.5/316L								4	3				
Flange 6" 150 lb RF, ASME B16.5/316L								4	4				
Flange 6" 300 lb RF, ASME B16.5/316L								4	5				
Thread G 3/4" PN 40, DIN3852-A/Alloy C22 (2.4602) ³⁷⁾								4	6				
Thread G 1" PN 40, DIN 3852-A/Alloy C22 (2.4602) ³⁷⁾								4	7				
Thread G 1 1/2" PN 40, DIN 3852-A/Alloy C22 (2.4602)								4	8				
Thread 1 1/2" NPT PN 40, ASME B1.20.1/Alloy C22 (2.4602)								5	0				
Flange DN 50 PN 40 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating								5	1				
Flange DN 50 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating								5	2				
Flange DN 80 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating								5	3				
Flange DN 100 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating								5	4				
Flange DN 150 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating								5	5				
Flange DN 200 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating								5	6				
Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								5	7				
Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								5	8				
Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								6	0				
Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								6	1				
Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								6	2				
Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								6	3				
Flange 6" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating								6	4				
Thread G 3/4" (DIN 3852-A) PN 40/Duplex 1.4462								6	5				
Flange DN 80 PN 40 Form F, DIN 2501/Duplex (1.4462)								6	6				
Flange DN 50 PN 40 Form B1, EN 1092-1/ Duplex (1.4462)								6	7				
Flange 1" 150 lb RF, ASME16.5/Duplex (1.4462)								6	8				
Flange 1 1/2" 150 lb RF, ASME B16.5/Duplex (1.4462)								7	0				
Flange 2" 150 lb RF, ASME B16.5/Duplex (1.4462)								7	1				
Flange 2" 300 lb RF, ASME B16.5/Duplex (1.4462)								7	2				
Flange 2" 600 lb RF, ASME B16.5/Duplex (1.4462)								7	3				
Flange 3" 150 lb RF, ASME B16.5/Duplex (1.4462)								7	4				
Flange 3" 300 lb RF, ASME B16.5/Duplex (1.4462)								7	5				
Flange 4" 150 lb RF, ASME B16.5/Duplex (1.4462)								7	6				
Flange 4" 150 lb FF, ASME B16.5/Duplex (1.4462)								7	7				
Flange 4" 300 lb RF, ASME B16.5/Duplex (1.4462)								7	8				
Flange 4" 600 lb RF, ASME B16.5/Duplex (1.4462)								8	0				
Thread 1 1/2" NPT PN 40, ASME B1.20.1/Alloy 400 (2.4360)								8	1				
Flange 2" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)								8	2				
Flange 2" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) solid								8	3				
Flange 3" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)								8	4				
Flange 3" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)								8	5				
Flange 3" 300 lb RJF, ASME B16.5/Alloy 400 (2.4360)								8	6				
Flange 4" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)								8	7				

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.	Article No.										Order Code		
	7	M	L	5	8	8	-	•	•	•	•	•	•
Flange 4" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)					8	8							
Flange DN 25 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) solid ³⁷⁾					9	0					L	1	A
Flange DN 25 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid ³⁷⁾					9	0					L	1	B
Flange DN 80 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid					9	0					L	1	C
Flange 1" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid ³⁷⁾					9	0					L	1	D
Flange 1 1/2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid ³⁷⁾					9	0					L	1	E
Flange 1 1/2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid ³⁷⁾					9	0					L	1	F
Flange 2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	G
Flange 2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	H
Flange 2" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	J
Flange 2" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	K
Flange 3" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	L
Flange 3" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	M
Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating					9	0					L	1	N
Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	P
Flange 4" 150 lb FF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	Q
Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	R
Flange 4" 300 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	S
Flange 4" 300 lb LT, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	T
Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	U
Flange 6" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L	1	V
Flange 2 1/2" 600 lb RF, Masoneilan/ Alloy C22 (2.4602) solid					9	0					L	1	W
Flange 2" 600 lb RF, ASME B16.5/316/316 L ²⁴⁾					9	0					L	1	X
Flange 3" 600 lb RF, ASME B16.5/316/316 L ²⁴⁾²⁵⁾					9	0					L	1	Y
Flange 4" 600 lb RF, ASME B16.5/316/316 L ³¹⁾					9	0					L	2	A
Thread R1½ PN40, EN 10226-1/316 L ³⁸⁾					9	0					L	2	B
Flange NPS 2" Class 1500 RF, ASME B16.5 / 316/316 L ³⁹⁾					9	0					L	2	C
Electronics													
Two-wire 4 ... 20 mA/HART										0			
Four-wire Modbus ²⁾⁸⁾¹¹⁾										1			
Two-wire 4 ... 20 mA/HART with SIL qualification ⁹⁾¹⁰⁾										2			
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60Hz ²⁾⁸⁾¹¹⁾³⁴⁾										3			
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ²⁾⁸⁾¹¹⁾³⁴⁾										4			
PROFIBUS PA ⁵⁾⁸⁾										5			
FOUNDATION Fieldbus ⁵⁾⁸⁾										6			
Seal/Second line of defense/Process temperature													
FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)											A		
FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)											B		
FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾											C		
FFKM (Kalrez 6375)/without/-20 ... 150 °C (-4 ... +302 °F)											D		
FFKM (Kalrez 6375)/with/-20 ... +150 °C (-4 ... +302 °F) ⁵⁾											E		
FFKM (Kalrez 6375)/with glass seal/-20 ... +200 °C (-4 ... +392 °F) ²⁶⁾											F		
EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)											G		
EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾											H		
EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾											J		
Silicone FEP coated (A+P FEP-O-SEAL)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)											K		
Silicone FEP coated (A+P FEP-O-SEAL)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)											L		

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

		Article No.										Order Code			
SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.		7	M	L	5	8	8	1	-						
Silicone FEP coated (A+P FEP-O-SEAL)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾												M			
With borosilicate glass lead through for volatile substances, e.g. ammonia/with glass seal/-60 ... +150 °C (-76 ... +302 °F) ²⁶⁾												N			
FFKM (Kalrez 6375)/without glass seal/-20 ... +200 °C (-4 ... +392 °F)												P			
FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... 80 °C (-40 ... +176 °F) ²⁶⁾												Q			
FFKM (Kalrez 6375)/without/-10 ... +150 °C												R			
FFKM (Kalrez 6375)/without/-10 ... +200 °C												S			
FFKM (Kalrez 6375)/with/-10 ... +150 °C												T			
FFKM (Kalrez 6375)/with/-10 ... +200 °C												U			
Housing/Protection/Cable															
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC															
Plastic IP66/IP67 M20 x 1.5/blind stopper ¹¹⁾¹⁵⁾													A		
Plastic IP66/IP67 1/2" NPT/blind stopper ⁸⁾¹¹⁾													B		
Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper													G		
Plastic 2-chamber/IP66/IP67 1/2" NPT/blind stopper													H		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Blind stopper ⁸⁾¹¹⁾													C		
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper ⁸⁾¹¹⁾													D		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5 / Blind stopper													E		
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper													F		
Stainless Steel (precision casting) 316L/ IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper ⁹⁾¹¹⁾													L		
Stainless Steel (precision casting) 316L/ IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper ⁸⁾¹¹⁾													M		
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper ⁸⁾¹¹⁾													N		
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper ⁸⁾¹¹⁾													P		
Stainless Steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper													Q		
Stainless Steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper													R		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland stainless steel ⁸⁾¹¹⁾													S		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel													T		
Stainless Steel (precision casting) 316L/ IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel ¹¹⁾²⁸⁾													U		
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel ¹¹⁾²⁸⁾													V		
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated													W		
Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated													X		
Stainless steel single chamber (precision casting)/IP66/ IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated													Y		
Stainless steel double chamber / IP66/ IP68 (0.2 bar) M20 x 1.5 / Cable gland brass nickel- plated													J		
Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Plug connector Harting HAN 7D (straight)													Z	Q	1 A
Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Special HARTING plug (bent) according to Tier One (ZB7555)													Z	Q	1 B
Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ¹¹⁾²⁷⁾													Z	Q	2 A
Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ¹¹⁾²⁷⁾													Z	Q	2 B
Lengths															
<u>Rod ø 8 mm/316L</u>															
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾														0	
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾														1	
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾														2	
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾														3	
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾														4	
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾														5	
<u>Rod ø 8 mm/Duplex</u>															

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.	Article No.										Order Code			
	7	M	L	5	8	8	1	-						
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	1	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	1	B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	1	C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	1	D
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾											9	R	1	E
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾											9	R	1	F
<u>Rod ø 8 mm or ø 12 mm / Alloy C22 and 400</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	1	J
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	1	K
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	1	L
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	1	M
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾											9	R	1	N
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾											9	R	1	P
<u>Rod ø 12 mm / 316L</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	2	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	2	B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	2	C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	2	D
<u>Cable lengths ø 2 or 4 mm / 316L</u>														
501 ... 1 000 mm (19.72 ... 39.37 inch)											9	R	2	E
1 000 ... 5 000 mm (39.37 ... 196.85 inch)											9	R	2	F
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	2	G
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	2	H
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	2	J
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	2	K
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)											9	R	2	L
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)											9	R	2	M
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)											9	R	2	N
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)											9	R	2	P
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)											9	R	2	Q
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	2	R
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)											9	R	2	S
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)											9	R	2	T
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)											9	R	2	U
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)											9	R	2	V
<u>Cable Lengths ø 2 mm or ø 4 mm / Alloy C22</u>														
501 ... 1 000 mm (19.72 ... 39.37 inch)											9	R	4	A
1 001 ... 5 000 mm (39.41 ... 196.85 inch)											9	R	4	B
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	4	C
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	4	D
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	4	E
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	4	F
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)											9	R	4	G
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)											9	R	4	H
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)											9	R	4	J
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)											9	R	4	K
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)											9	R	4	L
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	4	M

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG250 Guided radar level transmitter Continuous, contact, 75 m (246 ft) range. Monitors level and interface in liquids.	Article No.										Order Code			
	7	M	L	5	8	8	1	-						
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)											9	R	4	N
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)											9	R	4	P
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)											9	R	4	Q
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)											9	R	4	R
<u>Coax ø 21.3 mm/316L</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	3	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	3	B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	3	C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	3	D
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾											9	R	3	E
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾											9	R	3	F
<u>Coax ø 21.3 mm/Alloy C22</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	5	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	5	B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	5	C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	5	D
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾											9	R	5	E
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾											9	R	5	F
<u>Coax ø 42.2 mm/316L</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	3	G
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	3	H
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	3	J
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	3	K
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾											9	R	3	L
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾											9	R	3	M
<u>Coax ø 42.2 mm/Alloy C22</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾											9	R	5	G
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾											9	R	5	H
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾											9	R	5	J
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾											9	R	5	K
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾											9	R	5	L
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾											9	R	5	M
<u>Cable lengths ø 4 mm PFA</u>														
300 ... 1 000 mm (12 ... 39.37 inch)											9	R	6	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch)											9	R	6	B
2 001 ... 5 000 mm (78.77 ... 196.85 inch)											9	R	6	C
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	6	D
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	6	E
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	6	F
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	6	G
25 001 ... 32 000 mm (984.29 ... 1 259.84 inch)											9	R	6	H

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "-Z" to Article No. and specify Order code(s).	
Supplementary electronics	
Without	A00
Additional current output 4 ... 20 mA ¹¹⁾	A01
Dimensions centering weight (diameter/height)	
Without	B00
ø 40/30 mm	B01

Selection and ordering data (continued)

Selection and Ordering data	Order code
ø 45/30 mm (for 2 inch tubes)	B02
ø 75/30 mm (for 3 inch tubes)	B03
ø 95/30 mm (for 4 inch tubes)	B04
ø 40 mm/30 mm	B05
ø 1.57/1.18 inch (for 2 inch Schedule 160)	
ø 45 mm/30 mm (for 2 inch tubes)	B06
ø 1.77/1.18 inch (for 2 inch Schedule 40/80)	
ø 75 mm/30 mm (for 3 inch tubes)	B07
ø 2.95/1.18 inch (for 3 inch Schedule 10/40)	
ø 95 mm/30 mm (for 4 inch tubes)	B08
ø 3.74/1.18 inch (for 4 inch Schedule 80)	
Rod mounted	
Without Rod, applicable for coax or cable probe types only	C00
Mounted	C01
Not mounted	C02
Indicating/adjustment module	
Without	E00
Mounted	E01
Laterally mounted	E02
Language of display	
German	L00
English	L01
French	L02
Dutch	L03
Italian	L04
Spanish	L05
Portuguese	L06
Russian	L07
Chinese	L08
Japanese	L09
No language pre-set	L10
Operating instructions	
German	M00
English	M01
French	M02
Spanish	M03
Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	Y01
Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm	Y02
Remote electronic cable lengths: 2 m (6.6 ft). Only available with Housing options Q2A and Q2B	Y10
Remote electronic cable lengths: 5 m (16.4 ft). Only available with Housing options Q2A and Q2B	Y11
Remote electronic cable lengths: 10 m (32.8 ft). Only available with Housing options Q2A and Q2B	Y12
Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y17
Identification Label (measurement loop) foil, 40 charac- ters max, add in plain text. To add more than one line use a coma "," for line break.	Y18

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

Selection and Ordering data	Order code
Material Inspection certificate 3.1 of EN 10204	C05
3.1-Inspection Certificate for instrument (EN 10204) ³⁰⁾	C12
Inspection certificate 3.1 (EN 10204, NACE MR 0175) - material ³⁰⁾³¹⁾	D07
Note: 316L probes include NACE MR 0175 and MR 0103, non 316L probes include MR 0175 only and plated flange designs are not available with NACE certificate.	
3.1-Inspection Certificate for instrument with test data (EN 10204) ³⁰⁾	C25
2.2-Factory certificate for material (EN 10204) ³⁰⁾	C15
Quality and test plan ³⁰⁾	C26
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ³⁰⁾	C13
X-ray test + 3.1 certificate/instrument ³⁰⁾	C14
Positive material identification test + 3.1 certificate/instrument ³⁰⁾	C16
Roughness test + 3.1 certificate/instrument ³⁰⁾	C18
Pressure test + 3.1 certificate/instrument ³⁰⁾	C31
Helium leak test + 3.1 certificate/instrument ³⁰⁾	C32
Pressure test according to NORSOK + 3.1 certificate/instrument ³⁰⁾	C61
5 point calibration certificate (min. length 500 mm) ³⁰⁾	C62
Pressure test (acc. to ASME B31.1), incl. 3.1 Inspection certificate ³⁰⁾	C63
Certificate suitable for tropical regions with, all attachment parts of metal (2.1 factory certificate)	C65

Accessories	Article No.
Operating Instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Accessories	
SITRANS LG series/SITRANS RD150 sensor display module	A5E34143449
SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
SITRANS LG, USB communicator	A5E35192015
SITRANS LG, Mounting eye M8 x 20	A5E36653574
SITRANS LG, Mounting eye M12 x 20	PBD:51041448
SITRANS LG, Mounting spring	PBD:51041449
Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
SITRANS RD100, loop powered display -see Chapter 7	7ML5741-.....-
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....-
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....-
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....-
For applicable back up point level switch - see point level measurement section	

Note: some configuration options are not available. For restriction information see the online PIA configuration tool.

- ¹⁾ Not available with Plastic and Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- ²⁾ Available only with Metallic, Double chamber Housing/Protection/Cable options and certain glands.
- ³⁾ Not available with Remote or Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- ⁴⁾ Not available with Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- ⁵⁾ Not available with certain glands.
- ⁶⁾ Not available with Version/Material option K, L, M, N, P, Q, R, S, T, and U.
- ⁷⁾ Not available with Length options 3, 4, 5, R2C, and R2D.
- ⁸⁾ Available only with Supplementary electronic option A00.
- ⁹⁾ Not available with Seal/Second line of defense/Process temperature option N.
- ¹⁰⁾ Not available with Housing/Protection/Cable option Q1B.

Selection and ordering data (continued)

- 11) Not available with Indicating/adjustment module option E02.
 12) Not available with Process fitting/Material options 00 and 01.
 13) Available only with Electronic options 0 ... 4.
 14) Available only with glass seal options.
 15) Available only with Seal/Second line of defense/Process temperature options C, D, E, F, H, J, M, N, Q.
 16) Not Available with Housing/Protection/Cable options W, X, Y, J, Q1A, and Q1B.
 17) Not Available with Seal/Second line of defense/Process temperature option P.
 18) Available only with Single chamber, Aluminum and Stainless steel (precision casting) Housing/Protection/Cable options.
 19) Available only with Dimensions centering weight option B00.
 20) Available only with Rod mounted option C00.
 21) Not available with Dimensions centering weight option B00.
 22) Available only with Seal/Second line of defense/Process temperature option N.
 23) Not available with Version/Material options F, L, M, N, P, Q, R, S, and T.
 24) Not available with Seal/Process temperature options A, G, K, N, and Q.
 25) Available only with Version/Material options A ... K.
 26) Not available with Remote Housing/Protection/Cable options.
 27) Not available with some Seal/Process temperature options including glass.
 28) Not available with Supplementary electronics options.
 29) Not available with Y02.
 30) Listed Certificates are not available with all configurations, please contact factory for more information.
 31) Available only with 316L Probes. NACE is not available with coated, plated, or hygienic connections.
 32) Available only with Housing/Protection/Cable options E, F, N, Q, R, T.
 34) Available only with Double chamber, Plastic and Metallic Housing/Protection/Cable options and certain glands.
 35) Available only with Approvals options OA (CE only) and 1D.
 36) Available only with ø 4 mm PFA Length options.
 37) Not available with Probe version/Material option P.
 38) Available only with Probe version/Material options G and H.
 39) Available only with Probe version/Material options A ... E and H.

Note: Please consult manual for further details.

	Article No.	Order Code
SITRANS LG260 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level in solids.	7ML5882- ● ● ● ● ● - ● ● ● ●	● ● ●
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Approvals		
General purpose (CSA, FM, CE) ⁽⁶⁾	0 A	
Shipping approval ⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾	0 B	
Overfill protection (WHG; VLAREM) ⁽⁵⁾⁽⁸⁾	0 C	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁽⁵⁾⁽⁸⁾	0 E	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁽⁵⁾⁽⁸⁾	0 F	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 G	
ATEX II 1G, 1/2G, 2G Ex ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁽¹⁾⁽⁵⁾⁽⁸⁾	0 H	
ATEX II 1/2G, 2G Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 J	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ⁽²⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 L	
ATEX II 1/2G, II 2G Ex db ia IIC T6 ... T1 Ga/Gb, Gb + II 1D, 1/2D, 1/3D, 2D Ext IIIC T* Da, Da/Db, Da/Dc, Db ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 M	
ATEX II 1/2G, 2G Ex d IIC T6 ⁽¹⁾⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾	0 N	
ATEX II 1G, II 1/2G, II 2G Ex ia IIC T6...T1 Ga, Ga/Gb, Gb /IEC Ex ia IIC T6...T1 Ga, Ga/Gb, Gb ⁽⁸⁾	0 W	
ATEX II 1/2G, 2G Ex d IIC + shipping approval ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾	0 Q	
ATEX II 1/2G, 2G Ex d IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁽¹⁾⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾	0 R	
ATEX II 1D, 1/2D, 2D IP6x T ⁽¹⁾⁽⁸⁾⁽¹¹⁾	0 S	
IEC Ex ia IIC T6 ⁽⁵⁾⁽⁸⁾	0 T	
IEC Ex ia IIC T6...T1 Ga, Ga/Gb, Gb + Ex t IIIC T ⁽¹⁾⁽⁸⁾⁽¹¹⁾	0 U	
IEC Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 A	
IEC Ex d ia IIC T6 + IEC IP6x T tD ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 B	
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb ⁽¹⁾⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾	1 C	
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb + IEC Ex t IIIC T ⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾⁽¹⁹⁾	1 D	
FM (NI) Class I, Div. 2, Groups A, B, C, D ⁽³⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾	1 F	
FM (NI) Class I, Div. 2, Groups A, B, C, D + Ship approval ⁽³⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 G	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁽⁵⁾⁽⁸⁾⁽⁹⁾	1 H	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 J	
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 K	
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ⁽²⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 L	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	1 M	
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ⁽¹⁾⁽⁵⁾⁽¹⁰⁾	1 N	

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

		Article No.										Order Code		
SITRANS LG260 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level in solids.		7ML5882-	●	●	●	●	●	-	●	●	●	●	●	●
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁵⁾⁸⁾		1	P											
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾⁵⁾⁸⁾⁹⁾¹⁰⁾		1	Q											
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁸⁾⁹⁾¹⁰⁾¹¹⁾¹⁹⁾		1	R											
NEPSI Ex ia IIC T6 ⁵⁾⁸⁾		2	A											
NEPSI Ex ia IIC T6 + DIP A20/21 TA T ^{*1)5)8)}		2	B											
NERSI Ex d ia IIC T6 ²⁾⁵⁾⁸⁾⁹⁾¹⁰⁾		2	C											
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ^{*2)5)8)9)10)}		2	D											
NEPSI Ex d IIC T6 ⁸⁾¹⁰⁾¹⁹⁾		2	E											
NEPSI Ex d IIC T6 + DIP A20/21 TA T ^{*8)10)19)}		2	F											
NEPSI DIP A20/21 TA T ^{*1)8)}		2	G											
INMETRO Ex ia IIC T6 ... T10 ⁵⁾⁸⁾		3	A											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ¹⁾⁵⁾⁸⁾¹⁰⁾		3	B											
INMETRO Ex d ia IIC T6 ... T1 ²⁾⁵⁾⁸⁾⁹⁾¹⁰⁾		3	C											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ²⁾⁵⁾⁸⁾⁹⁾¹⁰⁾		3	D											
INMETRO Ex d IIC T6 ... T1 ⁸⁾¹⁰⁾¹⁹⁾		3	E											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁸⁾¹⁰⁾¹⁹⁾		3	F											
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ¹⁾⁵⁾⁸⁾¹⁰⁾		3	G											
KOSHA Ex d IIC T6 ... T1 – KE ⁸⁾¹⁰⁾¹⁹⁾		4	A											
Korea KC ex free area ⁸⁾		6	A											
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ⁸⁾		5	A											
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ¹⁾⁸⁾		5	B											
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ²⁾⁸⁾⁹⁾¹⁰⁾		5	C											
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ²⁾⁸⁾⁹⁾¹⁰⁾		5	D											
GOST-R/EAC 1 Ex d IIC T1 ... T6 X ⁸⁾¹⁰⁾¹⁹⁾		5	E											
GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁸⁾¹⁰⁾¹⁹⁾		5	F											
GOST-R/EAC Ex t IIIC T ... IP66 ¹⁾⁸⁾		5	G											
Note: Version/Material, Process fitting/Material, and Length options are available only with options of corresponding type.														
Probe version/Material														
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316 ¹³⁾¹⁴⁾			A											
Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316 ¹³⁾¹⁴⁾			B											
Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/PA coated ¹⁵⁾			C											
Probe exchangeable cable ø 11 mm (0.43 inch) with gravity weight/PA coated ¹⁵⁾			D											
Probe exchangeable rod ø 16 mm (0.63 inch)/316L ¹³⁾			E											
Process fitting/Material														
Thread G 3/4" (DIN 3852-A) PN 40/316L						0	0							
Thread 3/4" NPT (ASME B1.20.1) PN 40/316L						0	1							
Thread G 1" (DIN 3852-A) PN 40/316L						0	2							
Thread 1" NPT (ASME B1.20.1) PN 40/316L						0	3							
Thread G 1 1/2" (DIN 3852-A) PN 40/316L						0	4							
Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L						0	5							
Thread G 2" (DIN 3852-A) PN 40/316L						0	6							
Flange DN 50 PN 40 Form C, DIN 2501/316L						1	0							
Flange DN 80 PN 40 Form C, DIN 2501/316L						1	2							
Flange DN 100 PN 16 Form C, DIN 2501/316L						1	3							
Flange DN 100 PN 40 Form C, DIN 2501/316L						1	4							
Flange DN 150 PN 16 Form C, DIN 2501/316L						1	5							
Flange DN 50 PN 40 EN 1092-1 Form B1/316L						1	6							
Flange DN 80 PN 40 EN 1092-1 Form B1/316L						1	7							
Flange DN 100 PN 16 EN 1092-1 Form B1/316L						1	8							
Flange 2" 150 lb RF, ASME B16.5/316L						3	0							
Flange 2" 300 lb RF, ASME B16.5/316L						3	2							

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG260 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level in solids.	Article No.										Order Code			
	7	M	L	5	8	8	2	-						
Flange 3" 150 lb RF, ASME B16.5/316L					3	3								
Flange 3" 300 lb RF, ASME B16.5/316L					3	4								
Flange 4" 150 lb RF, ASME B16.5/316L					3	5								
Flange 4" 300 lb RF, ASME B16.5/316L					3	6								
Flange 6" 150 lb RF, ASME B16.5/316L					3	7								
Electronics														
Two-wire 4 ... 20 mA/HART										0				
Four-wire Modbus ²⁾⁹⁾¹⁰⁾										1				
Two-wire 4 ... 20 mA/HART with SIL qualification ⁹⁾										2				
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ²⁾⁹⁾¹⁰⁾										3				
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ²⁾⁹⁾¹⁰⁾										4				
PROFIBUS PA ⁹⁾										5				
FOUNDATION Fieldbus ⁹⁾										6				
Seal/Process temperature														
FKM (SHS FPM 70C3 GLT)/-40 ... +80 °C (-40 ... +176 °F) ¹⁶⁾										A				
FKM (SHS FPM 70C3 GLT)/-40 ... +150 °C (-40 ... +302 °F)										B				
FFKM (Kalrez 6375)/-20 ... +200 °C (-4 ... +392 °F)										C				
EPDM (A+P 70.10-02)/-40 ... +80 °C (-40 ... +176 °F) ¹⁶⁾										D				
EPDM (A+P 70.10-02)/-40 ... +150 °C (-40 ... +392 °F)										E				
Housing/Protection/Cable														
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC														
Plastic IP66/IP67 M20 x 1.5/blind stopper ⁹⁾¹⁰⁾											A			
Plastic IP66/IP67 1/2" NPT/blind stopper ⁹⁾¹⁰⁾											B			
Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper											C			
Plastic 2-chamber/IP66/IP67/ 1/2" NPT/blind stopper											D			
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper ⁹⁾¹⁰⁾											E			
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper ⁹⁾¹⁰⁾											F			
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											G			
Aluminum double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper											H			
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper ⁹⁾¹⁰⁾											J			
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper ⁹⁾¹⁰⁾											K			
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper ⁹⁾¹⁰⁾											L			
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper ⁹⁾¹⁰⁾											M			
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											N			
Stainless steel double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper											P			
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel ⁹⁾¹⁰⁾											Q			
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											R			
Stainless steel (precision casting) 316L/ IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel ⁹⁾¹⁰⁾											S			
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel ⁹⁾¹⁰⁾											T			
Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											W			
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											X			
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											Y			
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											U			
Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ¹⁰⁾										Z		Q	2	A
Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ¹⁰⁾										Z		Q	2	B
Lengths														
Rod ø 16 mm/316L														
500 mm (19.69 inch)												0		
501 ... 1 000 mm (19.72 ... 39.37 inch)												1		
1 001 ... 2 000 mm (39.41 ... 78.74 inch)												2		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)												3		

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG260 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level in solids.	Article No.										Order Code			
	7	M	L	5	8	8	2	-						
3 001 ... 4 000 mm (118.15 ... 157.48 inch)											4			
4 001 ... 5 000 mm (157.52 ... 196.85 inch)											5			
5 001 ... 6 000 mm (196.89 ... 236.22 inch)											6			
<u>Cable lengths ø 4 mm/316</u>														
501 ... 1 000 mm (19.72 ... 39.37 inch)											9	R	2	E
1 001 ... 5 000 mm (39.41 ... 196.85 inch)											9	R	2	F
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	2	G
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	2	H
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	2	J
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	2	K
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)											9	R	2	L
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)											9	R	2	M
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)											9	R	2	N
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)											9	R	2	P
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)											9	R	2	Q
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	2	R
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)											9	R	2	S
<u>Cable lengths ø 6 mm/316L</u>														
500 mm (19.69 inch)											9	R	4	A
501 ... 1 000 mm (19.72 ... 39.37 inch)											9	R	4	B
1 001 ... 5 000 mm (39.41 ... 196.85 inch)											9	R	4	C
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	4	D
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	4	E
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	4	F
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	4	G
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)											9	R	4	H
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)											9	R	4	J
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)											9	R	4	K
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)											9	R	4	L
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)											9	R	4	M
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	4	N
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)											9	R	4	P
<u>Cable lengths ø 6 mm or ø 11 mm/PA coated</u>														
501 ... 1 000 mm (19.72 ... 39.37 inch)											9	R	6	A
1 001 ... 5 000 mm (39.41 ... 196.85 inch)											9	R	6	B
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	6	C
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	6	D
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	6	E
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	6	F
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)											9	R	6	G
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)											9	R	6	H
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)											9	R	6	J
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)											9	R	6	K
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)											9	R	6	L
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	6	M

Selection and Ordering data	Order code
Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	Y01
Remote electronic cable lengths: 2 m (6.6 ft).	Y10
Only available with Housing options Q2A and Q2B.	
Remote electronic cable lengths: 5 m (16.4 ft).	Y11
Only available with Housing options Q2A and Q2B.	
Remote electronic cable lengths: 10 m (32.8 ft).	Y12
Only available with Housing options Q2A and Q2B.	
Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y17
Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y18
Material Inspection certificate 3.1 of EN 10204	C05

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

Selection and Ordering data	Order code
3.1-Inspection Certificate for instrument (EN 10204) ¹⁷⁾	C12
Inspection certificate 3.1 (EN 10204, NACE MR 0175) - material. ¹⁷⁾¹⁸⁾	D07
Note: 316L probes include NACE MR 0175 and MR 0103, non 316L probes include MR 0175 only and plated flange designs are not available with NACE certificate.	
3.1-Inspection Certificate for instrument with test data (EN 10204) ¹⁷⁾	C25
2.2-Factory certificate for material (EN 10204) ¹⁷⁾	C15
Quality and test plan ¹⁷⁾	C26
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ¹⁷⁾	C13
X-ray test + 3.1 certificate/instrument ¹⁷⁾	C14
Positive material identification test + 3.1 certificate/instrument ¹⁷⁾	C16
Roughness test + 3.1 certificate/instrument ¹⁷⁾	C18
Pressure test + 3.1 certificate/instrument ¹⁷⁾	C31
Helium leak test + 3.1 certificate/instrument ¹⁷⁾	C32
Pressure test according to NORSOK + 3.1 certificate/instrument ¹⁷⁾	C61
5 point calibration certificate (min. length 500 mm) ¹⁷⁾	C62

Accessories	Article No.
Operating Instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Accessories	
SITRANS LG series/SITRANS RD150 sensor display module	A5E34143449
SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
SITRANS LG, USB communicator	A5E35192015
SITRANS LG, Mounting eye M12 x 20	PBD:51041448
SITRANS LG, Mounting spring	PBD:51041449
Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
SITRANS RD100, loop powered display -see Chapter 7	7ML5741-.....
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....
For applicable back up point level switch - see point level measurement section	

Note: some configuration options are not available. For restriction information see the online PIA configuration tool.

- 1) Not available with Plastic and Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- 2) Available only with Double chamber, Metallic Housing/Protection/Cable options and certain glands.
- 3) Not available with Remote and Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- 4) Not available with Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.
- 5) Not available with Seal/Process temperature option C.
- 6) Not available with Housing/Protection/Cable options W, X, Y, and U.
- 7) Not available with Probe version/Material option E.
- 8) Available only with certain Electronics options.
- 9) Available only with Supplementary electronic option A00.
- 10) Not available with Indicating/adjustment module option E02.
- 11) Not available with Seal/Process temperature options B and E.
- 12) Available only with Seal/Process temperature option C.
- 13) Not available with Seal/Process temperature options A and D.
- 14) Available only with Rod mounted option C00.
- 15) Available only with Seal/Process temperature options A and D.
- 16) Not available with Housing/Protection/Cable options Q2A and Q2B.
- 17) Listed Certificates are not available with all configurations, please contact factory for more information.
- 18) Available only with 316L Probes. NACE is not available with coated, plated, or hygienic connections.

Selection and ordering data (continued)

¹⁹⁾ Available only with Single chamber, Aluminum and Stainless steel (precision casting) Housing/Protection/Cable options.

Note: Please consult manual for further details.

SITRANS LG270 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level and interface in liquids in extreme environments.	Article No.										Order Code		
	7	M	L	5	8	8	3	-	•	•	•	•	•
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.													
Approvals													
General purpose (CSA, FM, CE) ³²⁾	0												A
Shipping approval ¹⁾²⁾³⁾⁴⁾⁵⁾	0												B
Overfill protection (WHG; VLAREM) ²⁾³⁾	0												C
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ²⁾³²⁾	0												E
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ²⁾³⁾	0												F
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ¹⁾²⁾³⁾⁴⁾⁵⁾	0												G
ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ²⁾⁷⁾	0												H
ATEX II 1/2G, 2G Ex d ia IIC T6 ²⁾⁵⁾⁶⁾⁸⁾³²⁾	0												J
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ¹⁾²⁾³⁾⁵⁾⁶⁾⁸⁾	0												L
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ²⁾⁵⁾⁶⁾⁸⁾	0												M
ATEX II 1/2G, 2G Ex d IIC T6 ⁶⁾⁷⁾³²⁾	0												N
ATEX II 1G, II 1/2G, II 2G Ex ia IIC T6 ... T1 Ga, Ga/Gb, Gb /IEC Ex ia IIC T6 ... T1 Ga, Ga/Gb, Gb ²⁾³⁾	0												W
ATEX II 1/2G, 2G Ex d IIC + ship approval ¹⁾²⁾³⁾⁵⁾⁶⁾⁷⁾	0												Q
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ²⁾⁶⁾⁷⁾	0												R
ATEX II 1D, 1/2D, 2D IP6x T ²⁾⁷⁾	0												S
ATEX II 1/2G, II 2G Ex db IIC T6 ... T1 Ga/Gb, Gb + Overfill protection (WHG, VLAREM) ⁶⁾⁷⁾³²⁾	7												P
IEC Ex ia IIC T6 ²⁾	0												T
IEC Ex ia IIC T6 + IEC IP6x T tD ²⁾⁷⁾³²⁾	0												U
IEC Ex d ia IIC T6 ²⁾⁵⁾⁶⁾⁸⁾³²⁾	1												A
IEC Ex d ia IIC T6 + IEC IP6x T tD ²⁾⁵⁾⁶⁾⁸⁾	1												B
IEC Ex d IIC T6 ³⁾⁶⁾⁷⁾	1												C
IEC Ex d IIC T6 + IEC IP6x T tD ²⁾³⁾⁶⁾⁷⁾	1												D
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb + Ship approval ²⁾³⁾⁵⁾⁶⁾⁷⁾⁹⁾	7												C
IEC Ex ia IIC T6 ... T1 Ga, Ga/Gb, Gb + Ship approval ²⁾⁹⁾¹²⁾	7												D
IEC Ex d ia IIC T6 ... T1 Ga/Gb, Gb + Ship approval ²⁾⁵⁾⁶⁾⁸⁾⁹⁾	7												E
FM (NI) Class I, Div. 2, Groups A, B, C, D ²⁾⁵⁾¹⁰⁾³²⁾	1												F
FM (NI) Class I, Div. 2, Groups A, B, C, D + ship approval ¹⁾²⁾³⁾⁵⁾⁸⁾	1												G
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ²⁾⁵⁾³²⁾	1												H
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + ship approval ¹⁾²⁾³⁾⁴⁾⁵⁾	1												J
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾⁵⁾⁶⁾⁸⁾³²⁾	1												K
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ¹⁾²⁾³⁾⁵⁾⁶⁾⁸⁾	1												L
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁶⁾¹⁾³⁾³²⁾	1												M
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ³⁾⁶⁾⁷⁾	1												N
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾³⁾	1												P
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ²⁾³⁾⁵⁾⁶⁾⁸⁾	1												Q
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ³⁾⁵⁾⁶⁾¹⁾¹⁾¹⁹⁾	1												R
CSA (NI) Class I, II, III Div. 2, Groups A, B, C, D, F, G + Ship approval ²⁾³⁾⁶⁾⁷⁾⁹⁾	7												K
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ²⁾⁶⁾⁹⁾¹²⁾	7												L
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ²⁾³⁾⁵⁾⁶⁾⁸⁾⁹⁾	7												M
NEPSI Ex ia IIC T6 ²⁾³⁾	2												A
NEPSI Ex ia IIC T6 + DIP A20/21 TA T ^{*2)5)7)}	2												B
NERSI Ex d ia IIC T6 ²⁾³⁾⁵⁾⁶⁾⁸⁾	2												C
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ^{*2)3)5)6)8)}	2												D
NEPSI Ex d IIC T6 ²⁾³⁾⁶⁾¹¹⁾	2												E
NEPSI Ex d IIC T6 + DIP A20/21 TA T ^{*2)3)6)11)}	2												F
NEPSI DIP A20/21 TA T ^{*2)3)7)}	2												G
INMETRO Ex ia IIC T6 ... T1 ²⁾³²⁾	3												A
INMETRO Ex t IIIC T [*] IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ²⁾⁶⁾⁷⁾	3												B
INMETRO Ex d ia IIC T6 ... T1 ²⁾⁵⁾⁶⁾⁸⁾³²⁾	3												C
INMETRO Ex t IIIC T [*] IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ²⁾⁵⁾⁶⁾⁸⁾	3												D

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG270 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level and interface in liquids in extreme environments.	Article No. 7ML5883- ● ● ● ● ● - ● ● ● ●													Order Code ● ● ●		
INMETRO Ex d IIC T6 ... T1 ²⁽⁶⁾⁽¹¹⁾⁽³²⁾	3	E														
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ²⁽⁶⁾⁽¹¹⁾	3	F														
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ²⁽⁶⁾⁽⁷⁾	3	G														
KOSHA Ex d IIC T6 ... T1 – KE ²⁽³⁾⁽⁶⁾⁽¹¹⁾	4	A														
Korea KC ex free area ²⁽³⁾⁽²⁾	6	A														
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ²⁽¹³⁾	5	A														
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ²⁽⁷⁾	5	B														
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ²⁽⁵⁾⁽⁶⁾⁽⁸⁾	5	C														
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ²⁽⁵⁾⁽⁶⁾⁽⁸⁾	5	D														
GOST-R/EAC 1 Ex d IIC T1 ... T6 X ²⁽⁶⁾⁽¹¹⁾	5	E														
GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ²⁽⁶⁾⁽¹¹⁾	5	F														
GOST-R/EAC Ex t IIIC T ... IP66 ²⁽¹⁴⁾	5	G														
Note: Version/Material, Process fitting/Material, and Length options are available only with options of corresponding type.																
Version/Material																
Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316 ¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾		A														
Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ¹⁵⁾⁽¹⁷⁾⁽¹⁸⁾		B														
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾		C														
Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ¹⁵⁾⁽¹⁷⁾⁽¹⁸⁾		D														
Probe exchangeable rod ø 16 mm (0.63 inch)/316L ¹⁶⁾⁽¹⁹⁾⁽²⁰⁾		E														
Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ¹⁶⁾⁽¹⁷⁾⁽²⁰⁾		F														
Probe coax version ø 42.2 mm (1.66 inch); multiple hole; reference distances/316L ¹⁶⁾⁽¹⁷⁾⁽²⁰⁾⁽²¹⁾⁽²⁶⁾		G														
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/Alloy C22 (2.4602) ²²⁾⁽³⁰⁾		H														
Probe exchangeable rod ø 16 mm (0.63 inch)/Alloy C22 (2.4602) ²²⁾⁽³⁰⁾		J														
Coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602) ²²⁾⁽³⁰⁾		K														
Exchangeable rod, diameter 8 mm (0.32 inch)/316L ¹⁹⁾⁽²³⁾		L														
Coax ø 21.3 mm (0.838 inch) with multiple hole/316L ²³⁾		M														
Process fitting/Material																
Thread G 1 1/2" (DIN 3852-A) PN 400/316L ²⁰⁾						0	0									
Thread 1 1/2" NPT (ASME B1.20.1) PN 400/316L ²⁰⁾						0	1									
Thread G1 1/2" PN 400, DIN 3852-A/Alloy C22 (2.4602)						0	2									
Thread 1 1/2" NPT PN 400, ASME B1.20.1/ Alloy C22 (2.4602)						0	3									
Flange DN 50 PN 40 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating						0	4									
Flange DN 80 PN 40 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating						0	5									
Flange DN 100 PN 16 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating						0	6									
Flange DN 50 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating						0	7									
Flange DN 50 PN 63 Form B1, EN 1092-1/ 316L with Alloy C22						0	8									
Flange DN 50 PN 40 Form C, DIN 2501/316L						1	0									
Flange DN 50 PN 40 form V13, DIN 2513/316L						1	1									
Flange DN 65 PN 64 Form V13, DIN 2501/316L						1	2									
Flange DN 80 PN 40 Form C, DIN 2501/316L						1	3									
Flange DN 80 PN 40 Form V13, DIN 2501/316L						1	4									
Flange DN 80 PN 100 Form L, DIN 2501/316L ²⁰⁾						1	5									
Flange DN 100 PN 16 Form C, DIN 2501/316L						1	6									
Flange DN 100 PN 16 Form V13, DIN 2501/316L						1	7									
Flange DN 100 PN 40 Form C, DIN 2501/316L						1	8									
Flange DN 100 PN 40 Form V13, DIN 2513/316L						2	0									
Flange DN 150 PN 16 Form C, DIN 2501/316L						2	1									
Flange DN 50 PN 40 EN 1092-1 Form B1/316L						2	2									
Flange DN 100 PN 160 GOST 12815-80.7/316L ²⁰⁾						2	3									
Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating						2	4									
Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating						2	5									
Flange 2" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating						2	6									
Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating						2	7									
Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating						2	8									
Flange DN 80 PN 160 Form C, DIN 2501/316L ²⁰⁾						6	0									
Flange DN 80 PN 250 Form L, DIN 2501/316L ²⁰⁾						6	1									

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG270 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level and interface in liquids in extreme environments.	Article No.										Order Code		
	7	M	L	5	8	8	3	-	7	M	L	5	8
Flange DN 50 PN 160, EN 1092-1 Form B1/316L ²⁰⁾	6	2											
Flange DN 50 PN 160, EN 1092-1 Form B2/316L ²⁰⁾	6	3											
Flange DN 50 PN 32, EN 1092-1 Form B1/316L ²⁰⁾	6	4											
Flange DN 65 PN 250, EN 1092-1 Form B1/316L ²⁰⁾	6	5											
Flange DN 100 PN 160, EN 1092-1 Form B2/316L ²⁰⁾	6	6											
Flange DN 80 PN 63, EN 1092-1 Form B2/316L	6	7											
Flange 4" 600 lb RF, ASME B16.5/ 316L with Alloy C22 (2.4602) coating	6	8											
Flange 2" 150 lb RF, ASME B16.5/316L	3	0											
Flange 2" 300 lb RF, ASME B16.5/316L	3	1											
Flange 2" 600 lb RF, ASME B16.5/316L	3	2											
Flange 2" 1 500 lb RF, ASME B16.5/316L	3	3											
Flange 3" 150 lb RF, ASME B16.5/316L	3	4											
Flange 3" 300 lb RF, ASME B16.5/316L	3	5											
Flange 3" 600 lb RF, ASME B16.5/316L	3	6											
Flange 3" 900 lb RF, ASME B16.5/316L	3	7											
Flange 3" 2 500 lb RF, ASME B16.5/316L	3	8											
Flange 3 1/2" 600 lb RF, ASME B16.5/316L	4	0											
Flange 4" 150 lb RF, ASME B16.5/316L	4	1											
Flange 4" 300 lb RF, ASME B16.5/316L	4	2											
Flange 4" 600 lb RF, ASME B16.5/316L	4	3											
Flange 6" 150 lb RF, ASME B16.5/316L	4	4											
Flange 6" 300 lb RF, ASME B16.5/316L	4	5											
Flange 6" 600 lb RF, ASME B16.5/316L	4	6											
Flange 2" 150 lb Fisher special return/316L	4	7											
Flange 3" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602)	4	8											
Flange 2" 900 lb RF, ASME B16.5/316L	5	0											
Flange 3" 1 500 lb RF, ASME B16.5/316L	5	1											
Flange 4" 900 lb RF, ASME B16.5/316L	5	2											
Flange 4" 1 500 lb RF, ASME B16.5/316L	5	3											
Flange 4" 2 500 lb RJF, ASME B16.5/316L ²⁰⁾	5	4											
Flange 4" 1500 lb RJF, ASME B16.5/316L ²⁰⁾	5	5											
Flange 3" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5	6											
Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5	7											
Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5	8											
Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	7	0											
Flange DN 50 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) solid	7	1											
Flange DN 100 PN 16 Form C, DIN 2501/C22 solid	7	2											
Flange DN 100 PN 40 Form N, DIN 2501/Alloy C22 (2.4602) solid	7	3											
Flange DN 50 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) solid	7	4											
Flange 2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	7	5											
Flange 2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	7	6											
Flange 2" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	7	7											
Flange 2" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	7	8											
Flange 2" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	8	0											
Flange 3" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8	1											
Flange 3" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8	2											
Flange 3" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8	3											
Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8	4											
Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8	5											
Flange 3" 600 lb RJF for R31, ASME B16.5/ Alloy C22 (2.4602) solid	8	6											
Flange 2" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9	0									L	1	A

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG270 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level and interface in liquids in extreme environments.										Article No. 7ML5883- ● ● ● ● ● - ● ● ● ●	Order Code ● ● ●
Flange 3" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 B
Flange 3" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 C
Flange 4" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 D
Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 E
Flange 4" 900 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 F
Flange 4" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) massiv					9	0					L 1 G
Flange 4" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 H
Flange 4" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 J
Flange 8" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid					9	0					L 1 K
Flange 3½" 600 lb Fisher type 249B and 259B/Alloy C22 (2.4602) solid					9	0					L 1 L
Flange 2½" 300 lb RF, ASME B16.5/316/316L					9	0					L 2 A
Flange 2½" 600 lb RF, ASME B16.5/316/316L					9	0					L 2 B
Flange DN 50 PN 40 Form D, EN 1092-1/316/316L ²⁴⁾					9	0					L 2 C
Flange 2½" 1 500 lb RF, ASME B16.5/316/316L					9	0					L 2 D
Flange 2" 600 lb RF, ASME B16.5/316L (NORSOK) ³⁴⁾³⁵⁾					9	0					L 2 E
Flange 3" 1500lb RJF, ASME B16.5 / 316/316L ³²⁾					9	0					L 2 F
Thread G 1" (DIN 3852-A) PN 100/316L					9	0					L 3 C
Thread 1" NPT, ASME B1.20.1/PN 100/316L					9	0					L 3 D
Thread G 1½" (DIN 3852-A) PN 100/316L					9	0					L 3 E
Thread 1½" NPT, ASME B1.20.1/PN 100/316L					9	0					L 3 F
Thread 2" NPT, ASME B1.20.1/PN 100/316L					9	0					L 3 G
Thread G ¾ PN100, DIN 3852-A/316L ³¹⁾					9	0					L 3 H
Thread ¾ NPT PN100, ASME B1.20.1/31 ³¹⁾					9	0					L 3 J
Electronics											
Two-wire 4 ... 20 mA/HART								0			
Four-wire Modbus ⁵⁾⁶⁾⁸⁾								1			
Two-wire 4 ... 20 mA/HART with SIL qualification ⁵⁾								2			
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ⁵⁾⁶⁾⁸⁾								3			
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ⁵⁾⁶⁾⁸⁾								4			
PROFIBUS PA ⁵⁾								5			
FOUNDATION Fieldbus ⁵⁾								6			
Seal/Second line of defense/Process temperature											
Ceramic-graphite/with glass seal/ -196 ... +280 °C (-321 ... +536 °F)								A			
Ceramic-graphite/with glass seal/ -196 ... +450 °C (-321 ... +842 °F)								B			
Ceramic-graphite/with glass seal/ -196 ... +400 °C (-321 ... +752 °F) ²¹⁾								C			
PEEK-FFKM (Kalrez 6375) /with glass seal/ -20...+250 °C (-4 ... +482 °F) ²¹⁾								D			
Housing/Protection/Cable											
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC											
Plastic IP66/IP67 M20 x 1.5/blind stopper									A		
Plastic IP66/IP67 1/2" NPT/blind stopper									B		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper									C		
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper									D		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper									E		
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper									F		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper									L		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper									M		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper									N		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper									P		

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG270 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level and interface in liquids in extreme environments.	Article No.										Order Code		
	7	M	L	5	8	8	3	-	•	•	•	•	•
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper											Q		
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper											R		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											S		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											T		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											U		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel											V		
Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											W		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											X		
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											Y		
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated											J		
Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ⁶⁾											Z	Q	2 A
Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ⁶⁾											Z	Q	2 B
Lengths													
<u>Rod ø 16 mm/316L</u>													
300 mm (11.81 inch) ²⁵⁾												0	
500 mm (19.69 inch) ²⁵⁾												1	
501 ... 1 000 mm (19.72 ... 39.37 inch) ²⁵⁾												2	
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾												3	
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾												4	
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁵⁾												5	
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁵⁾												6	
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁵⁾												7	
<u>Rod ø 16 mm/C22</u>													
501 ... 1 000 mm (19.72 ... 39.37 inch) ²⁵⁾												9	R 1 A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾												9	R 1 B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾												9	R 1 C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁵⁾												9	R 1 D
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁵⁾												9	R 1 E
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁵⁾												9	R 1 F
<u>Rod ø 8 mm/316L</u>													
300 ... 1 000 mm (11.81 ... 39.37 inch)												9	R 1 H
1 001 ... 2 000 mm (39.41 ... 78.74 inch)												9	R 1 J
2 001 ... 3 000 mm (78.78 ... 118.11 inch)												9	R 1 K
3 001 ... 4 000 mm (118.15 ... 157.48 inch)												9	R 1 L
4 001 ... 5 000 mm (157.52 ... 196.85 inch)												9	R 1 M
5 001 ... 6 000 mm (196.89 ... 236.22 inch)												9	R 1 N
<u>Cable lengths ø 2 or 4 mm/316L</u>													
501 ... 1 000 mm (19.72 ... 39.37 inch)												9	R 2 E
1 000 ... 5 000 mm (39.37 ... 196.85 inch)												9	R 2 F
5 001 ... 10 000 mm (196.89 ... 393.70 inch)												9	R 2 G
10 001 ... 15 000 mm (393.74 ... 590.55 inch)												9	R 2 H
15 001 ... 20 000 mm (590.59 ... 787.40 inch)												9	R 2 J
20 001 ... 25 000 mm (787.44 ... 984.25 inch)												9	R 2 K
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)												9	R 2 L
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)												9	R 2 M
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)												9	R 2 N
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)												9	R 2 P
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)												9	R 2 Q

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG270 Guided radar level transmitter Continuous, contact, 60 m (197 ft) range. Monitors level and interface in liquids in extreme environments.	Article No.										Order Code			
	7	M	L	5	8	8	3	-	•	•	•	•	•	•
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	2	R
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)											9	R	2	S
<u>Cable lengths ø 4 mm/ C22</u>														
501 ... 1 000 m (19.72 ... 39.37 inch)											9	R	4	A
1 000 ... 5 000 mm (39.37 ... 196.85 inch)											9	R	4	B
5 001 ... 10 000 mm (196.89 ... 393.70 inch)											9	R	4	C
10 001 ... 15 000 mm (393.74 ... 590.55 inch)											9	R	4	D
15 001 ... 20 000 mm (590.59 ... 787.40 inch)											9	R	4	E
20 001 ... 25 000 mm (787.44 ... 984.25 inch)											9	R	4	F
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)											9	R	4	G
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)											9	R	4	H
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)											9	R	4	J
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)											9	R	4	K
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)											9	R	4	L
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)											9	R	4	M
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)											9	R	4	N
<u>Coax ø 42.2 mm/316L</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁵⁾											9	R	3	G
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾²⁶⁾											9	R	3	H
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾											9	R	3	J
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁵⁾											9	R	3	K
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁵⁾											9	R	3	L
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁵⁾											9	R	3	M
<u>Coax ø 42.2 mm/C22</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁵⁾											9	R	3	Q
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾²⁶⁾											9	R	3	R
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾											9	R	3	S
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁵⁾											9	R	3	T
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁵⁾											9	R	3	U
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁵⁾											9	R	3	V
<u>Coax ø 21.3 mm/316L</u>														
300 ... 1 000 mm (11.81 ... 39.37 inch)											9	R	5	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch)											9	R	5	B
2 001 ... 3 000 mm (78.78 ... 118.11 inch)											9	R	5	C
3 001 ... 4 000 mm (118.15 ... 157.48 inch)											9	R	5	D
4 001 ... 5 000 mm (157.52 ... 196.85 inch)											9	R	5	E
5 001 ... 6 000 mm (196.89 ... 236.22 inch)											9	R	5	F

Selection and ordering data (continued)

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "-Z" to Article No. and specify Order code(s).	
Supplementary electronics	
Without	A00
Additional current output 4 ... 20 mA ⁶⁾	A01
Dimensions centering weight (diameter/height)	
Without	B00
ø 40/30 mm	B01
ø 45/30 mm (for 2 inch tubes)	B02
ø 75/30 mm (for 3 inch tubes)	B03
ø 95/30 mm (for 4 inch tubes)	B04
ø 40 mm/30 mm	B05
ø 1.57 inch/1.18 inch (for 2 inch Schedule 160)	
ø 45 mm/30 mm (for 2 inch tubes)	B06
ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80)	
ø 75 mm/30 mm (for 3 inch tubes)	B07
ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40)	
ø 95 mm/30 mm (for 4 inch tubes)	B08
ø 3.74 inch/1.18 inch (for 4 inch Schedule 80)	
Rod mounted	
Without Rod, applicable for coax or cable probe types only	C00
Mounted	C01
Not mounted	C02
Indicating/adjustment module	
Without	E00
Mounted	E01
Laterally mounted	E02
Language of display	
German	L00
English	L01
French	L02
Dutch	L03
Italian	L04
Spanish	L05
Portuguese	L06
Russian	L07
Chinese	L08
Japanese	L09
No language pre-set	L10
Operating instructions	
German	M00
English	M01
French	M02
Spanish	M03
Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	Y01
Y02 rigid part is 100 mm, only applicable for cable versions	Y02
Reference probe G length of reference distance = 260 mm/10.24 inches (note blanking 450 mm required with min. probe 1 000 mm)	Y05
Reference probe G length of reference distance = 500 mm/19.69 inches (note blanking 690 mm required with min. probe 1 250 mm)	Y06

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

Selection and Ordering data	Order code
Reference probe G length of reference distance = 750 mm/29.53 inches (note blanking 940 mm required with min. probe 1 500 mm)	Y07
Remote electronic cable lengths: 2 m (6.6 ft). Only available with Housing options Q2A and Q2B	Y10
Remote electronic cable lengths: 5 m (16.4 ft). Only available with Housing options Q2A and Q2B	Y11
Remote electronic cable lengths: 10 m (32.8 ft). Only available with Housing options Q2A and Q2B	Y12
Customer specific adjustment (unit value, 100 % distance from seal, 0 % distance from seal)	Y20
Cleaning included certificate: oil, grease and silicone free	W01
Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y17
Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y18
Material Inspection certificate 3.1 of EN 10204	C05
3.1-Inspection Certificate for instrument (EN 10204) ²⁷⁾	C12
Inspection certificate 3.1 (EN 10204, NACE MR 0175) - material. ²⁷⁾	D07
Note: 316L probes include NACE MR 0175 and MR 0103, non 316L probes include MR 0175 only and plated flange designs are not available with NACE certificate.	
3.1-Inspection Certificate for instrument with test data (EN 10204) ²⁷⁾	C25
2.2-Factory certificate for material (EN 10204) ²⁷⁾	C15
Quality and test plan ²⁷⁾	C26
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ²⁷⁾	C13
X-ray test + 3.1 certificate/instrument ²⁷⁾	C14
Positive material identification test + 3.1 certificate/instrument ²⁷⁾	C16
Roughness test + 3.1 certificate/instrument ²⁷⁾	C18
Pressure test + 3.1 certificate/instrument ²⁷⁾	C31
Helium leak test + 3.1 certificate/instrument ²⁷⁾	C32
Pressure test according to NORSOK + 3.1 certificate/instrument ²⁷⁾³³⁾	C61
5 point calibration certificate (min. length 500 mm) ²⁷⁾	C62
Pressure test (acc. to ASME B31.1), incl. 3.1 Inspection certificate ²⁸⁾	C63
Certificate: Approval for steam boiler according to EN 12952-11, EN 12953-9 ²⁹⁾	C70

Selection and Ordering data	Article No.
Operating Instructions	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Accessories	
SITRANS LG series/SITRANS RD150 sensor display module	A5E34143449
SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
SITRANS LG, USB communicator	A5E35192015
SITRANS LG, Mounting eye M12 x 20	PBD:51041448
SITRANS LG, Mounting spring	PBD:51041449

Selection and ordering data (continued)

Selection and Ordering data	Article No.
Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
SITRANS RD100, loop powered display -see Chapter 7	7ML5741-.....-
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....-....
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....-..
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....-..
For applicable back up point level switch - see point level measurement section	

Note: some configuration options are not available. For restriction information see the online PIA configuration tool.

- 1) Not available with Version/Material options E, F, G, J, and K.
- 2) Available only with certain Electronic options.
- 3) Not available with Seal/Process temperature option D.
- 4) Not available with Stainless Steel (electropolished) Housing/Protection/Cable options and certain glands.
- 5) Available only with Supplementary electronic option A00.
- 6) Not available with Indicating/adjusting module E02.
- 7) Not available with Plastic and Stainless Steel (electropolished) Housing/Protection/Cable options and certain glands.
- 8) Available only with Double chamber, Metallic Housing/Protection/Cable options and certain glands.
- 9) Available only with Version/Material options A, B, C, D, and H.
- 10) Not available with Remote and Stainless Steel (electropolished) Housing/Protection/Cable options and certain glands.
- 11) Available only with Single chamber, Aluminum and Stainless steel (precision casting) Housing/Protection/Cable options.
- 12) Available only with Housing/Protection/Cable options N, P, V, and Q2A.
- 13) Not available with Housing/Protection/Cable options W, X, Y, and J.
- 14) Available only with Housing/Protection/Cable options C, E, L, Q.
- 15) Not available with Seal/Process temperature option C.
- 16) Available only with Dimensions centering weight option B00.
- 17) Available only with Rod mounted option C00.
- 18) Not available with Dimensions centering weight option B00.
- 19) Not available with Rod mounted option C00.
- 20) Not available with Seal/Process temperature options C and D.
- 21) Not available with Remote Housing/Protection/Cable options.
- 22) Not available with Seal/Process temperature options B and D.
- 23) Available only with Seal/Process temperature option D.
- 24) Available only with Seal/Process temperature options A, B, and C.
- 25) Not available with Order code Y02.
- 26) Accuracy is application dependent, please consult factory.
- 27) Listed Certificates are not available with all configurations, please contact factory for more information.
- 28) Available only with ASME Process fitting/Material options.
- 29) Available with Version/Material options G, L, M and Electronic options 2 and 6.
- 30) Available only with Alloy C22 Process fitting/Material options.
- 31) Available only with Version/Material option M.
- 32) Available only with some Version/Material options.
- 33) Available only with Process fitting options.
- 34) Available only with Seal/Second line of defense/Process temperature options A and B.
- 35) Available only with 316L probe Version/material options. Nace not available with coated, plated, or hygienic connections.

Note: Please consult manual for further details.

Selection and Ordering data	Article No.									
SITRANS LG Remote Interface	7ML5840-	●	●	●	●	●	-	●	●	●
Provides remote display and configuration for SITRANS LG series guided radar level transmitters.										0
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.										
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC										
Approval										
For Ex-free area	0	A								
ATEX II 1G, Ex ia IIC T6 Ga, Gb	0	C								
ATEX II 2G, Ex d IIC T6 Gb ¹⁾	0	E								
IEC Ex ia IIC T6 Ga, Gb	0	F								
IEC Ex d IIC T6 Gb ¹⁾	0	G								
cCSA _{US} (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G	0	H								
cCSA _{US} (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	0	J								
cCSA _{US} (XP) Class I, Div. 1, Groups A, B, C, D ¹⁾	0	K								

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

Selection and Ordering data		Article No.									
SITRANS LG Remote Interface		7ML5840- ● ● ● ● ● - ● ● ● ● 0									
Provides remote display and configuration for SITRANS LG series guided radar level transmitters.											
INMETRO Ex ia IIC T6 Ga, Gb		0	L								
INMETRO Ex d IIC T6 Gb ¹⁾		0	M								
Shipping Approval (DNV/GL) ⁶⁾		0	N								
ATEX II 1G, 2G Ex ia IIC T6 Ga, Gb + Ship approval		0	P								
ATEX II 2G Ex db IIC T6 Gb + Ship approval ¹⁾		0	Q								
IEC Ex ia IIC T6 Ga, Gb + Ship approval		0	R								
IEC Ex db IIC T6 Gb + Ship approval ¹⁾		0	S								
cCSA _{us} (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval		0	T								
cCSA _{us} (XP) Class I, Div. 1, Groups A, B, C, D + Ship approval ¹⁾		0	U								
Electronics											
Digital (I ² C communication)			A								
Housing											
Plastic ²⁾⁴⁾					0						
Aluminum ³⁾⁵⁾					1						
Stainless Steel (precision casting) ³⁾⁵⁾					2						
Housing protection											
IP66/IP67 NEMA 4X					0						
IP66/IP68 NEMA 6P (0.2 bar)					1						
Cable entry											
M20 x 1.5/ Blind plug							3				
½" NPT/ Blind plug							5				
Display											
Without								A			
Mounted								B			
Mounting											
For wall mounting with Aluminum or stainless steel housing									A		
For carrier rail and wall mounting with plastic housing									B		
For carrier rail with Aluminum or stainless steel housing									C		
For tube mounting (29 ... 60 mm) including mounting material									D		
Certificates											
None										0	
3.1 Certificate/Instrument with test data										1	
Quality and Test plan										2	

¹⁾ Available only with Housing options 1 and 2.

²⁾ Available only with Housing option 0.

³⁾ Available only with Housing option 1.

⁴⁾ Available only with Mounting options B and D.

⁵⁾ Not available with Mounting option B.

⁶⁾ Shipping approval is only available with housing options 0 and 1.

SITRANS LG Replacement Probes		Article No.									
For use with SITRANS LG series guided radar level transmitters.		7ML5841- ● ● ● ● ● - ● ● ● ● 0									
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.											
Instrument											
LG240 ⁴⁾		0									
LG250 ⁶⁾		1									
LG260 ⁷⁾		2									
LG270 ⁹⁾¹⁰⁾		3									
Probe Type³⁾											
Exchangeable cable ø 2 mm with gravity weight/316 ¹⁾¹¹⁾			A	A							
Exchangeable cable ø 2 mm center weight/316 ²⁾¹¹⁾			A	C							
Exchangeable cable ø 4 mm without weight/316 ¹⁾¹¹⁾			A	D							
Exchangeable cable ø 4 mm with gravity weight/316 ¹⁾¹¹⁾			A	E							
Exchangeable cable ø 4 mm with center weight/316 ²⁾¹¹⁾			A	G							
Exchangeable cable ø 6 mm with gravity weight/316 ¹⁾⁸⁾¹¹⁾			A	H							
Exchangeable rod ø 8 mm/316L ¹⁾			A	P							
Exchangeable rod ø 8 mm/1.4435 (acc. to Basle Standard) ¹⁾			A	Q							

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG Replacement Probes For use with SITRANS LG series guided radar level transmitters.		Article No. 7ML5841- ● ● ● ● ● - ● ● ● 0									
Exchangeable rod ø 12 mm/316L ¹⁾			A	U							
Exchangeable rod ø 16 mm/316L ¹⁾			A	W							
Exchangeable coated cable ø4 mm with uncoated centering weight / PFA and 316 ¹⁾¹²⁾			B	A							
Process fitting											
Thread less than or equal to 1½ inch					0						
Thread greater than or equal to 2 inch					1						
Flange less than DN 50 or 2 inch					2						
Flange greater or equal to DN 50 or 2 inch or hygienic fitting (not for safety ingold 25 x 46 mm)					3						
Dimension centering weight											
Without					0						
ø 40 mm/30 mm					1						
ø 45 mm/30 mm (for 2 inch tubes)					2						
ø 75 mm/30 mm (for 3 inch tubes)					3						
ø 95 mm/30 mm (for 4 inch tubes)					4						
ø 1.57 inch/1.18 inch (for 2 inch Schedule 160)					5						
ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80)					6						
ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40)					7						
ø 3.74 inch/1.18 inch (for 4 inch Schedule 80)					8						
Certificates											
Without							0				
2.2 Material certificate							1				
3.1 Material certificate							2				
Lengths											
<u>Rod ø 8 mm</u>											
300 ... 1 000 mm (11.81 ... 39.37 inch)								A	A		
1 001 ... 2 000 mm (39.41 ... 78.74 inch)								A	B		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)								A	C		
3 001 ... 4 000 mm (118.15 ... 157.48 inch)								A	D		
4 001 ... 5 000 mm (157.52 ... 196.85 inch)								A	E		
5 001 ... 6 000 mm (196.89 ... 236.22 inch)								A	F		
<u>Rod ø 12 mm</u>											
300 ... 1 000 mm (11.81 ... 39.37 inch)								A	G		
1 001 ... 2 000 mm (39.41 ... 78.74 inch)								A	H		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)								A	J		
3 001 ... 4 000 mm (118.15 ... 157.48 inch)								A	K		
4 001 ... 5 000 mm (157.52 ... 196.85 inch)								A	L		
5 001 ... 6 000 mm (196.89 ... 236.22 inch)								A	M		
<u>Rod ø 16 mm</u>											
300 ... 1 000 mm (11.81 ... 39.37 inch)								A	N		
1 001 ... 2 000 mm (39.41 ... 78.74 inch)								A	P		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)								A	Q		
3 001 ... 4 000 mm (118.15 ... 157.48 inch)								A	R		
4 001 ... 5 000 mm (157.52 ... 196.85 inch)								A	S		
5 001 ... 6 000 mm (196.89 ... 236.22 inch)								A	T		
<u>Cable Lengths ø 2 mm and 4 mm/316</u>											
501 ... 1 000 mm (19.72 ... 39.37 inch)								A	U		
1 001 ... 5 000 mm (39.41 ... 196.85 inch)								A	V		
5 000 ... 10 000 mm (196.85 ... 393.70 inch)								A	W		
10 001 ... 15 000 mm (393.74 ... 590.55 inch)								A	X		
15 001 ... 20 000 mm (590.59 ... 787.40 inch)								A	Y		
20 001 ... 25 000 mm (787.44 ... 984.25 inch)								B	A		
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)								B	B		

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Selection and ordering data (continued)

SITRANS LG Replacement Probes For use with SITRANS LG series guided radar level transmitters.										Article No. 7ML5841- ● ● ● ● ● - ● ● ● 0
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)									B	C
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)									B	D
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)									B	E
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)									B	F
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)									B	G
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)									B	H
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)									B	J
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)									B	K
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)									B	L
<u>Cable Lengths ø 6 mm/316</u>										
501 ... 1 000 mm (19.72 ... 39.37 inch)									B	M
1 001 ... 5 000 mm (39.41 ... 196.85 inch)									B	N
5 000 ... 10 000 mm (196.89 ... 393.70 inch)									B	P
10 001 ... 15 000 mm (393.74 ... 590.55 inch)									B	Q
15 001 ... 20 000 mm (590.59 ... 787.40 inch)									B	R
20 001 ... 25 000 mm (787.44 ... 984.25 inch)									B	S
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)									B	T
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)									B	U
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)									B	V
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)									B	W
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)									B	X
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)									B	Y
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)									C	A
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)									C	B
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)									C	C
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)									C	D
<u>Cable Lengths ø 4 mm/316</u>										
300 ... 1 000 mm (12 ... 39.37 inch)									D	A
1 001 ... 2 000 mm (39.41 ... 78.74 inch)									D	B
2 001 ... 5 000 mm (78.77 ... 196.85 inch)									D	C
5 001 ... 10 000 mm (196.89 ... 393.70 inch)									D	D
10 001 ... 15 000 mm (393.74 ... 590.55 inch)									D	E
15 001 ... 20 000 mm (590.59 ... 787.40 inch)									D	F
20 001 ... 25 000 mm (787.44 ... 984.25 inch)									D	G
25 001 ... 32 000 mm (984.29 ... 1 259.84 inch)									D	H

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	Y01
Total length: Enter the total length of rigid part (range 100 ... 1 000 mm LG270 limited to 100 mm) (cable versions only)	Y02

- 1) Available only with Dimension centering weight option 0.
- 2) Available only with Dimension centering weight options 1 ... 8.
- 3) All Probe types are only available with corresponding Probe lengths.
- 4) Not available with Probe type options AH, AQ, and AW.
- 5) Available only with Process fitting options 2 and 3.
- 6) Not available with Probe type options AQ and AW.
- 7) Available only with Probe type options AE, AH, and AW.
- 8) Not available with Process fitting option 2.
- 9) Available only with Probe type options AA, AC, AE, AG, and AW.
- 10) Available only with Process fitting options 0 and 3.
- 11) Not available with certificate options 1 and 2.
- 12) Available only with Dimension centering weight options 1 ... 4.

Selection and ordering data (continued)

SITRANS LG Spacers For use with SITRANS LG series guided radar level transmitters.		Article No. 7ML5842- ● ● ● ● - 0 0 A A 0									
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.											
Instrument											
LG240 ¹⁾		0									
LG250 ²⁾		1									
LG260 ³⁾		2									
LG270 ³⁾		3									
Version/Material											
Cable ø 4 mm/ PFA ⁴⁾			A	A							
Rod ø 8 mm including fastening/ PEEK can be shortened ⁵⁾			A	B							
Rod ø 10 mm/ PFA ⁴⁾			A	C							
Rod ø 12 mm including fastening/ PEEK can be shortened ⁵⁾			A	D							
Rod ø 16 mm, cable with gravity weight, including fastening/ PEEK can be shortened ⁵⁾⁷⁾			A	E							
Cable ø 2 mm including fastening/ PEEK and 316L			A	F							
Rod ø 16 mm including fastening/ 1.4568 (AISI 631) flexible ⁸⁾			A	G							
Rod ø 8 mm including fastening/ PTFE can be shortened ⁵⁾			A	H							
Rod ø 12 mm including fastening/ 1.4568 (AISI 631) flexible ⁶⁾			A	G							
Tube diameter											
50 mm (2 inch) up to 100 mm (4 inch)					1						
49.2 mm (1.9 inch) up to 56.3 mm (2.2 inch)					2						
66.6 mm (2.6 inch) up to 84.9 mm (3.3 inch)					3						

¹⁾ Available only with Version/Material options AA and AC.

²⁾ Available only with Version/Material options AB, AD, AE, AH and AJ.

³⁾ Available only with Version/Material options AE and AG.

⁴⁾ Available only with Tube Diameter option 1 and LG240.

⁵⁾ Available only with Tube Diameter options 2 and 3 and LG250.

⁶⁾ Available only with Tube Diameter option 1 and LG250.

⁷⁾ Available only with Tube diameter option 1 and LG260 or LG270.

⁸⁾ Available only with Tube Diameter options 2 and 3 and LG260 or LG270.

Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Technical specifications

SITRANS LG series	
Mode of operation	
Measuring principle	Guided wave radar measurement
Measuring range	300 ... 75 000 mm (11.81 ... 2 952.75 inch)
Output	
mA analog output with HART digital signal	4 ... 20 mA/HART (SIL optional)
Output range	
• Analog	Current: minimum 3.8 mA, maximum 20.5 mA
• Startup current	≤ 10 mA for 5 ms after switching on, ≤ 3.6 mA
Diagnostic alarm	Failure signal current output (adjustable): last valid measured value, ≥ 21 mA, ≤ 3.6 mA
Digital communication	HART Version 7 x and multidrop compatible
Modbus	Modbus RTU, Modbus ASCII
PROFIBUS PA	PROFIBUS PA profile 3.02
FOUNDATION Fieldbus	FOUNDATION Fieldbus protocol Physical layer according to IEC 61158-2
Performance	
• Measuring cycle time	< 500 ms
• Step response time	≤ 3 s
• Temperature Effects	The measurement error from the process conditions is in the specified pressure and temperature range of below 1 %
Non-linearity	
• Coaxial	
• Single rod probes	
• Interface models	See manual for more details
Resolution and repeatability	Accuracy +/- 2 mm (0.08 inch)
Accuracy	
• Coaxial/rod/cable probes	+/- 2 mm (0.08 inch)
• Interface models	+/- 5 mm (0.197 inch) Note: Typical deviation, Interface measurement. See manual for full explanation.
Rated operating conditions	
Ambient temperature for enclosure	-40 ... +80 °C (-40 ... +176 °F)
Storage temperature	-40 ... +80 °C (-40 ... +176 °F)
LCD readable temperature range	-40 ... +80 °C (-40 ... +176 °F) with display heated option
Location	Indoor/outdoor
Installation category	II
Pollution degree	2
Relative Humidity	20 ... 85 %
Medium conditions	
Dielectric constant	dK ≥ 1.4 (configuration dependent) Note: for measurement below 1.4 use probe end tracking.
Process temperature range	-196 ... +450 °C (-321 ... +842 °F)
Vessel pressure	-1 ... +400 bar (-100 ... +40 000 kPa)
Design	
Instrument weight (dependent on process fitting) - see manual for further details	Approx. 0.8 ... 8 kg (0.176 ... 17.64 lb)
Materials	

Technical specifications (continued)

SITRANS LG series	
• Enclosure	- Plastic housing plastic PBT (Polyester) - Aluminum die-cast housing, aluminum die-cast AlSi10 mg, powder-coated- basis: polyester - Stainless steel housing, precision casting 316L - Stainless steel housing, electropolished 316L
• Degree of protection	- Type 4/NEMA 4, IP65 - Plastic housing IP66/IP67 - Aluminum and stainless steel housings are IP66/68
• Cable inlet	2 x M20 x 1.5 or 2 x ½" NPT
Process connections	
• Pipe thread, cylindrical (ISO 228 T1)	G¾" A, G1" A, G1½" A according to DIN 3852-A
• American pipe thread, conical (ASME B1.20.1)	¾" NPT, 1" NPT, 1½" NPT
• Flanged	DIN from DN 25, ASME from 1"
• Hygienic	Hygienic fittings
Process seal instrument side	FKM (SHS FPM 70C3 GLT), FFKM (Kalrez 6375), EPDM (A+P 70.10-02), silicone FEP coated (A+P FEPO-SEAL) or Borosilicate glass GPC 540
Second line of defense (glass seal) (optional)	Borosilicate glass GPC 540 Note: The second line of defense is a second level of the process separation in the form of a gas-tight feedthrough in the lower part of the housing, preventing product from penetrating into the housing.
Programming	
Local	Four button, menu-driven data entry
Handheld communicator	Hart communicator
PC	SIMATIC PDM, AMS, PACTware
Power	
2-wire Hart version	9.6 ... 35 V DC
4-wire versions	9.6 ... 48 V DC, 20 ... 42 V AC, 50/60 Hz, and 90 ... 253 V AC, 50/60 Hz
Modbus	8 ... 30 V DC
PROFIBUS PA	9 ... 32 V DC
FOUNDATION Fieldbus	9 ... 32 V DC
	Note: see manual for specific power based on ordered options
Certificates and approvals	
Hazardous approvals:	ATEX, FM, CSA, IECex Note: other regional approvals are available
Hygienic approvals:	EHEDG, FDA
Overfill protection	WHG, Vlarex
Ship approval	ABS, CCS, GL, BV, LR

Industries	SITRANS LG240 Food, Beverage and Pharmaceutical	SITRANS LG250 Chemical/HPI/Power/General	SITRANS LG260 Cement, power generation, food, processing, mineral processing, mining	SITRANS LG270 Chemical/HPI/Power/General
Applications	Hygienic and corrosive applications	Liquids, storage and process vessels with agitators, vaporous liquids, interface	Cement, fly ash, grain, coal, flour, plastics	Aggressive applications in liquids, storage and process vessels with agitators, vaporous liquids, high temperatures and pressures, low dielectric media
Range	32 m	75 m	60 m	60 m
Performance	± 2 mm	± 2 mm	± 2 mm	± 2 mm

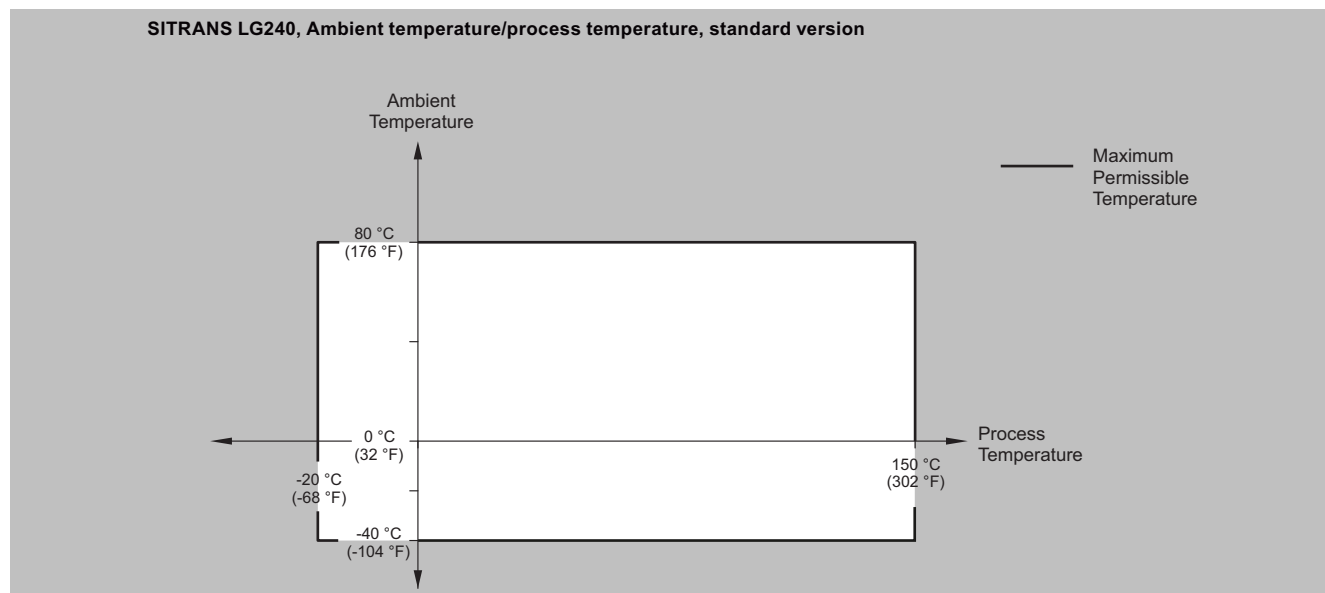
Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Technical specifications (continued)

Industries	SITRANS LG240 Food, Beverage and Pharmaceutical	SITRANS LG250 Chemical/HPI/Power/Gener- al	SITRANS LG260 Cement, power generation, food, processing, mineral processing, mining	SITRANS LG270 Chemical/HPI/Power/Gener- al
Temperature	-40 ... +150 °C (-40 ... +302 °F)	-40 ... +200 °C (-40 ... +392 °F)	-40 ... +200 °C (-40 ... +392 °F)	-196 ... +450 °C (-320.8 ... +842 °F)
Process pressure				
Standard version	-	-1 ... +40 bar/ -100 ... +4 000 kPa (-14.5 ... +580 psig), depending on the process fitting	-	-
With borosilicate glass lead- through	-	-1 ... +100 bar/ -100 ... +10 000 kPa (-14.5 ... +1 450 psig), depend- ing on the process fitting	-	-
Communications	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare

Characteristic curves

SITRANS LG240, ambient temperature/process temperature curve

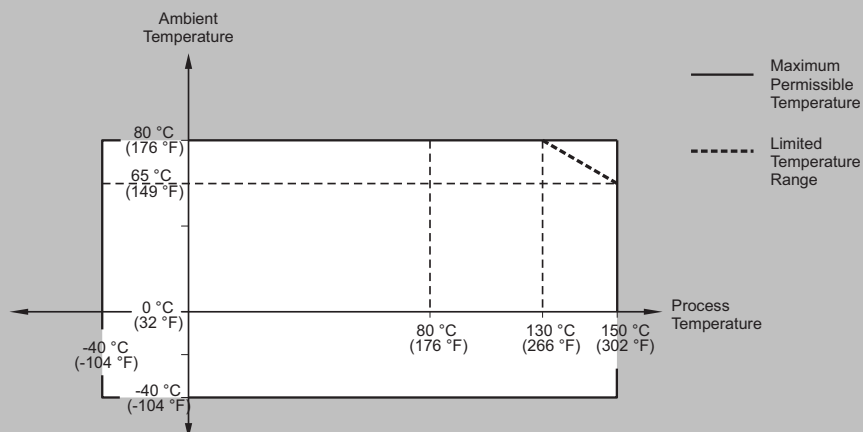
Level Measurement

Continuous level measurement

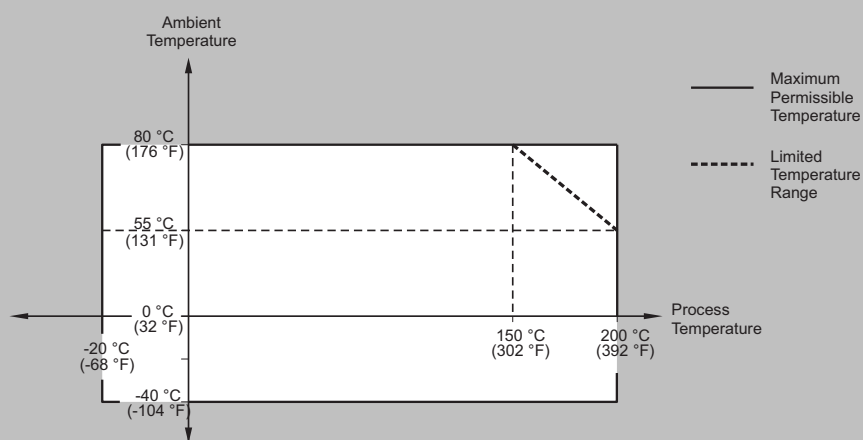
Guided wave radar transmitters / SITRANS LG series

Characteristic curves (continued)

SITRANS LG250, Ambient temperature/process temperature, standard version



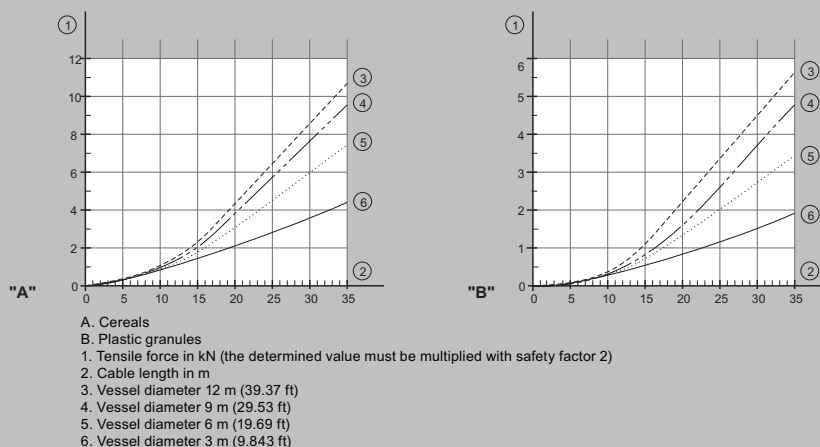
SITRANS LG250, Ambient temperature/process temperature, temperature adapter version



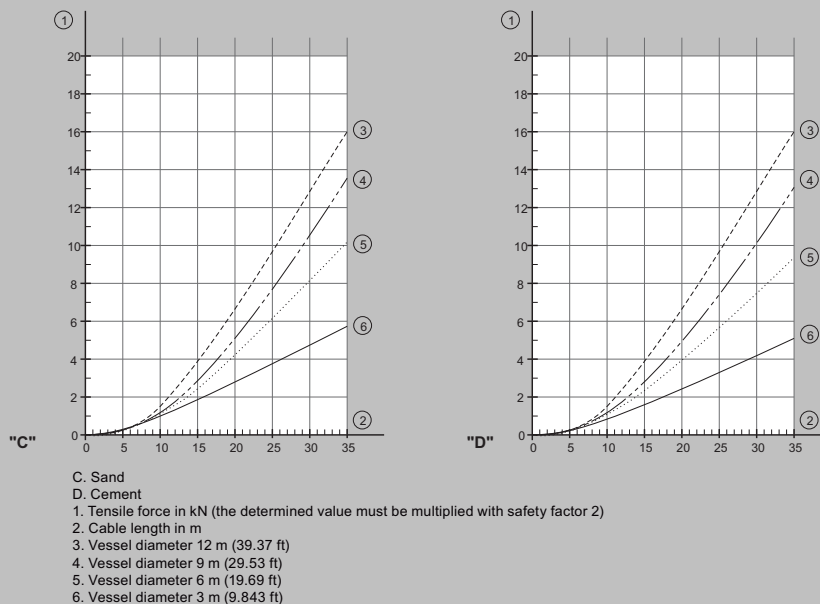
SITRANS LG250, ambient temperature/process temperature curves

Characteristic curves (continued)

SITRANS LG260, Maximum tensile load with cereals and plastic granules - cable: $\varnothing$ 4 mm (0.157 inch)



SITRANS LG260, Maximum tensile load with sand and cement - cable: $\varnothing$ 4 mm (0.157 inch)



SITRANS LG260, maximum tensile load curves

Level Measurement

Continuous level measurement

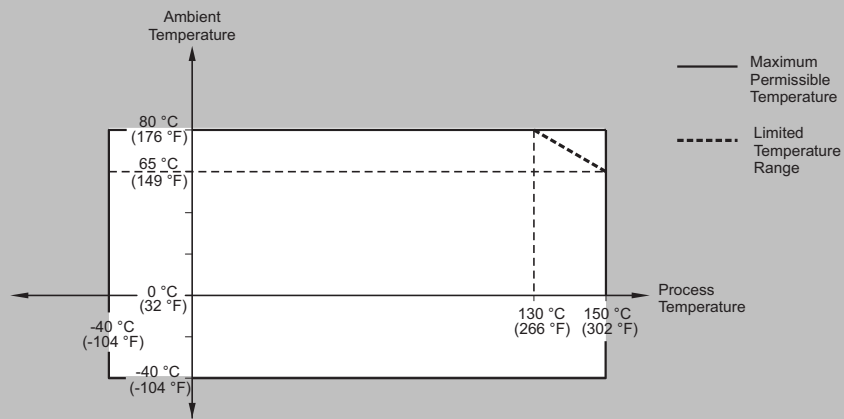
Guided wave radar transmitters / SITRANS LG series

Characteristic curves (continued)

SITRANS LG260, Ambient temperature/process temperature, standard version

Cable version with $\varnothing$ 4 mm (0.157 inch)

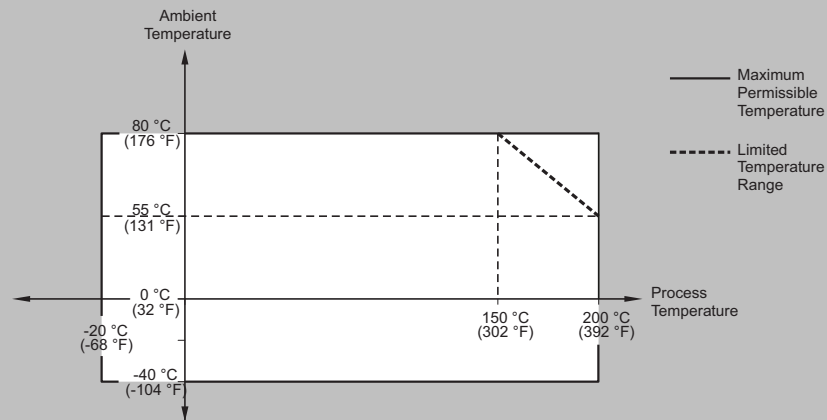
Cable version, PA coated with $\varnothing$ 6 mm (0.236 inch)



SITRANS LG260, Ambient temperature/process temperature, temperature adapter version

Cable version with $\varnothing$ 4 mm (0.157 inch)

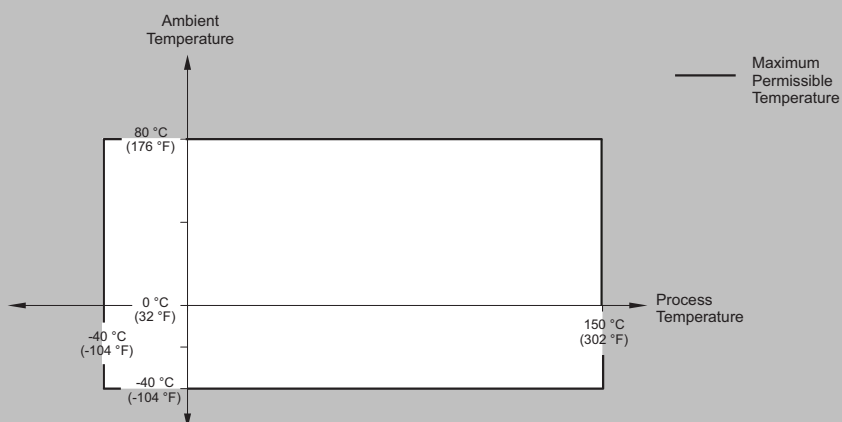
Cable version, PA coated with $\varnothing$ 6 mm (0.236 inch)



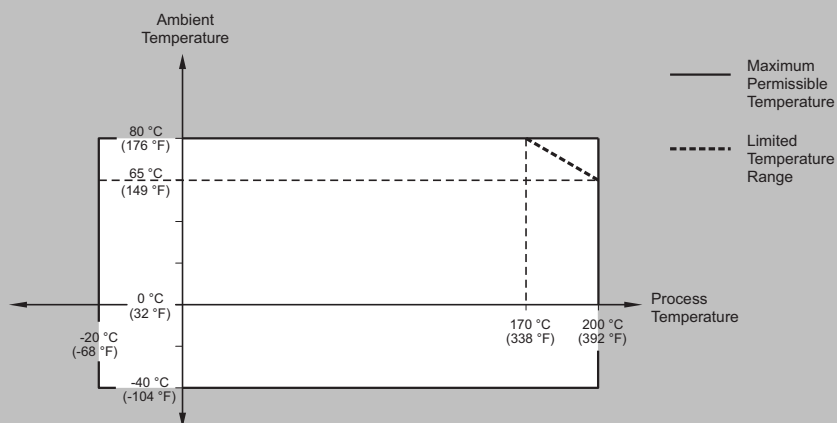
SITRANS LG260, ambient temperature/process temperature curves

Characteristic curves (continued)

SITRANS LG260, Ambient temperature/process temperature, standard version
Cable version with $\varnothing$ 6 mm (0.236 inch)
Cable version, PA coated with $\varnothing$ 11 mm (0.433 inch)



SITRANS LG260, Ambient temperature/process temperature, temperature adapter version
Cable version with $\varnothing$ 6 mm (0.236 inch)
Cable version, PA coated with $\varnothing$ 11 mm (0.433 inch)



SITRANS LG260, ambient temperature/process temperature curves

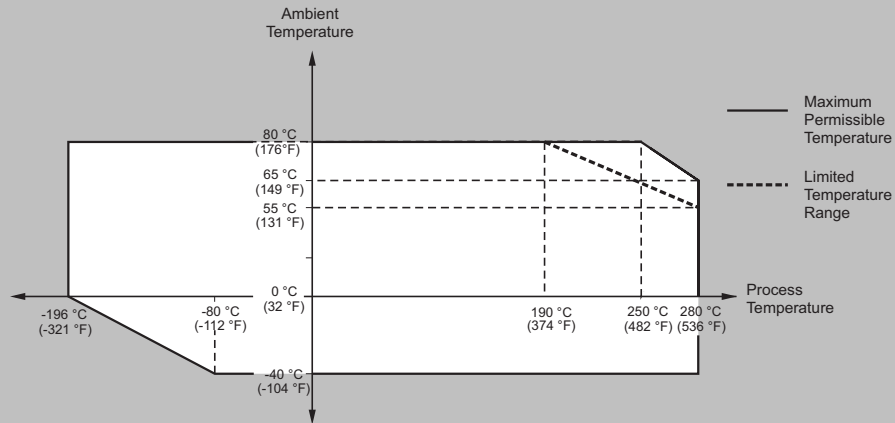
Level Measurement

Continuous level measurement

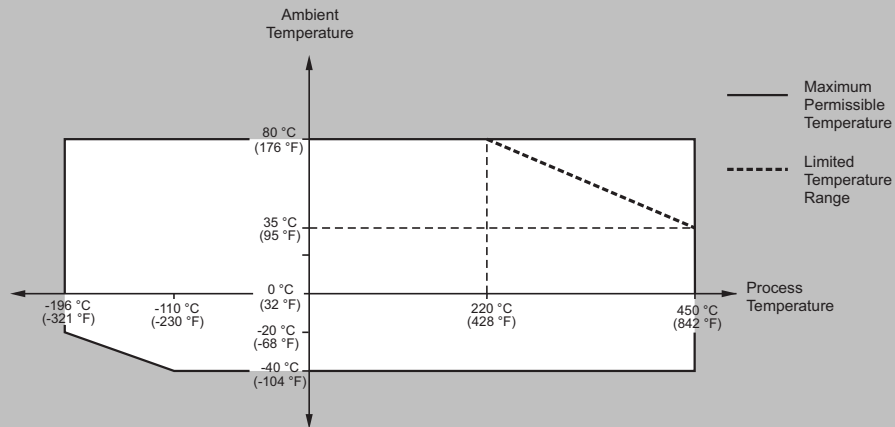
Guided wave radar transmitters / SITRANS LG series

Characteristic curves (continued)

SITRANS LG270, Ambient temperature/process temperature (-196 ... +280 °C/-321 ... +536 °F version)

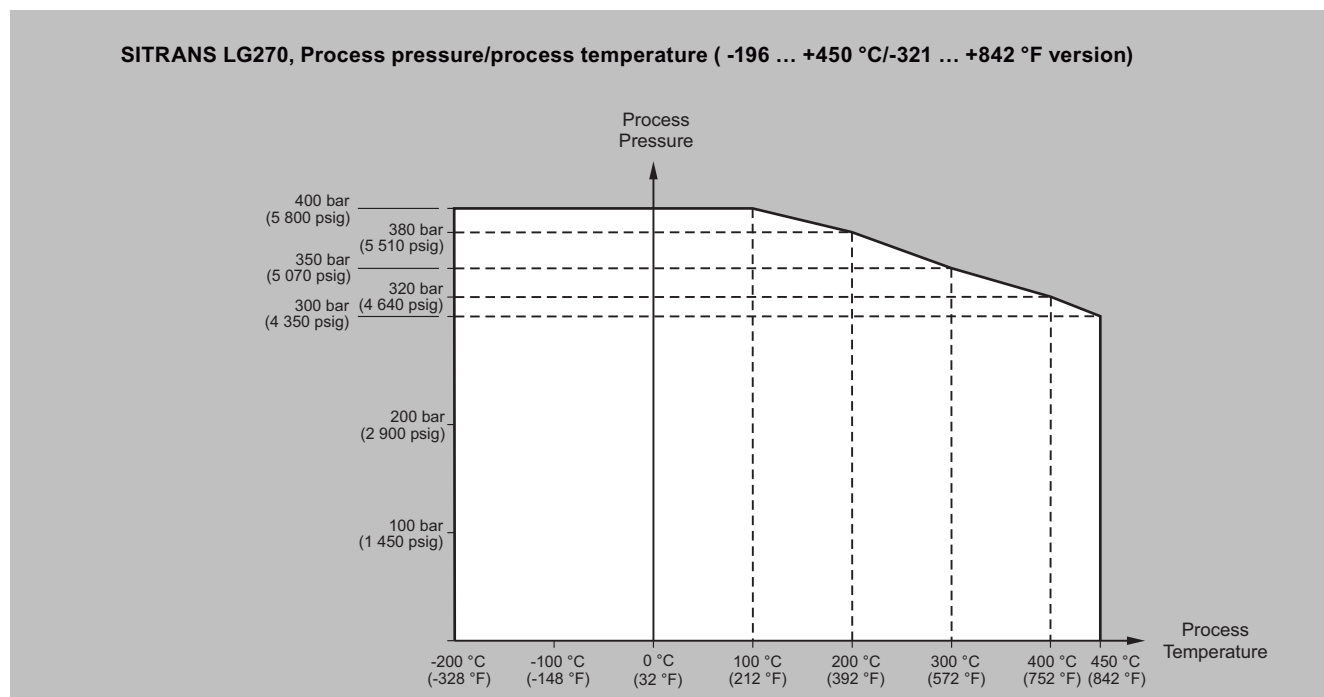


SITRANS LG270, Ambient temperature/process temperature (-196 ... +450 °C/-321 ... +842 °F version)



SITRANS LG270, ambient temperature/process temperature curves

Characteristic curves (continued)



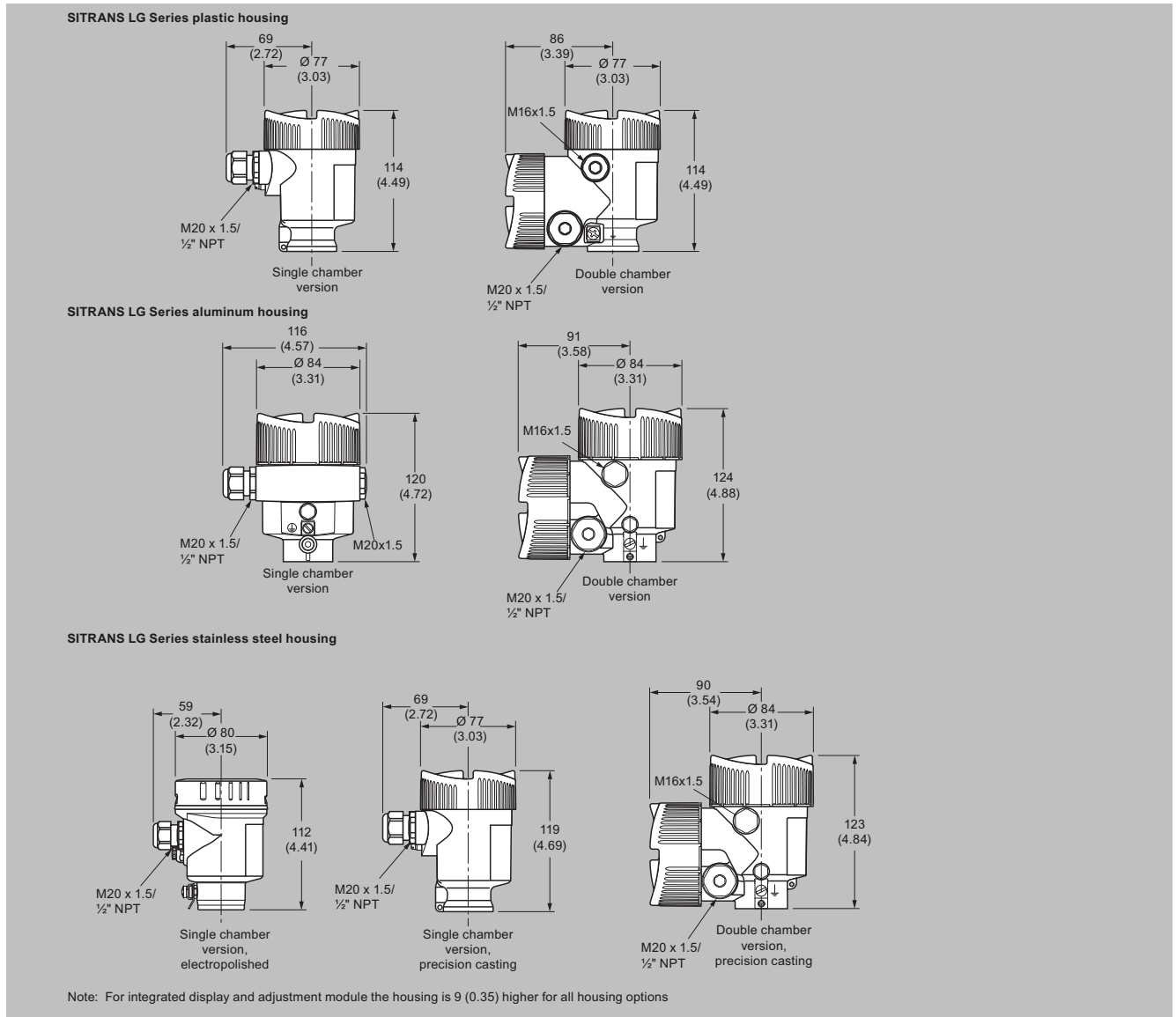
SITRANS LG270, process pressure/process temperature curve

Level Measurement

Continuous level measurement

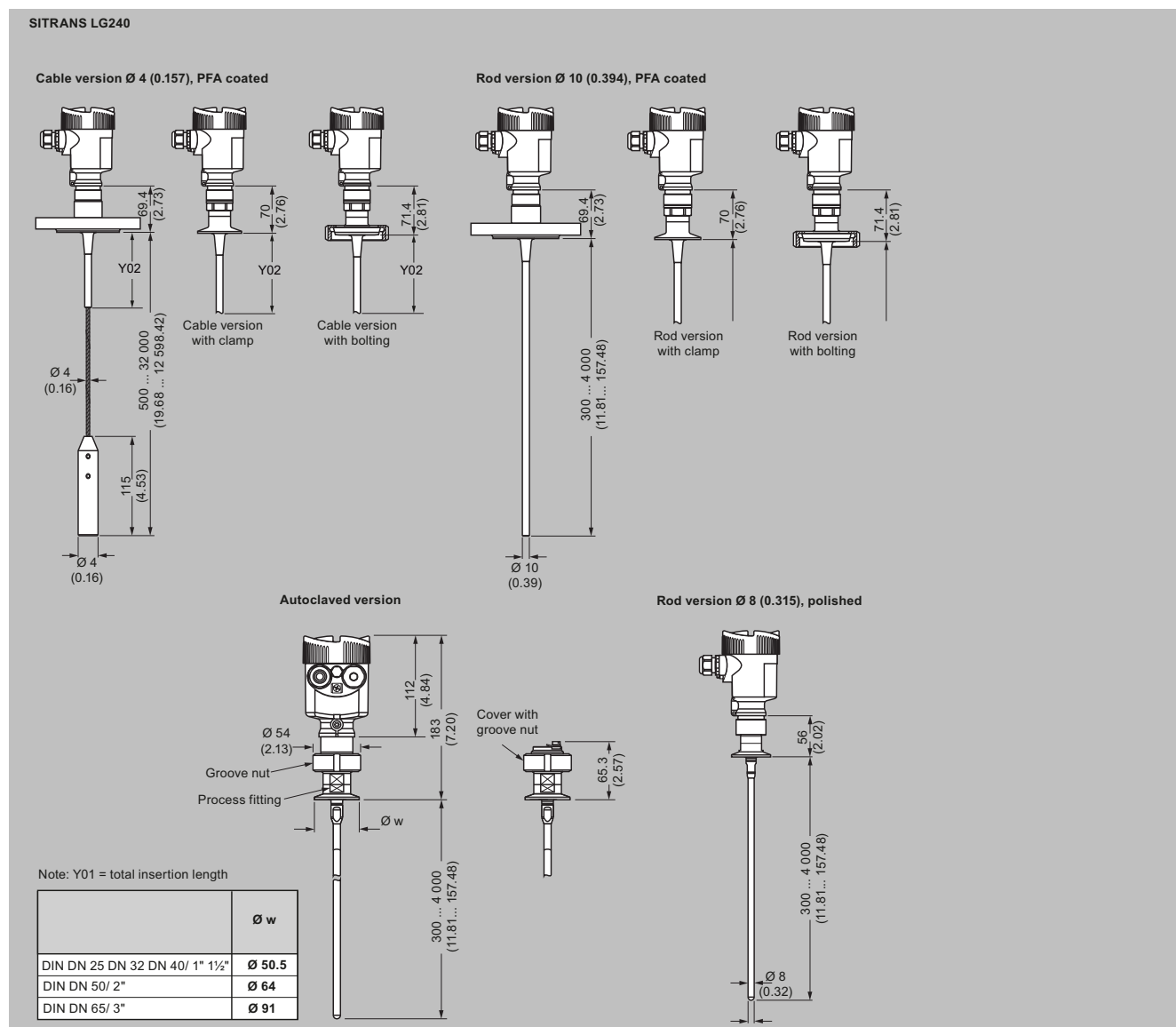
Guided wave radar transmitters / SITRANS LG series

Dimensional drawings



SITRANS LG series, dimensions in mm (inch)

Dimensional drawings (continued)



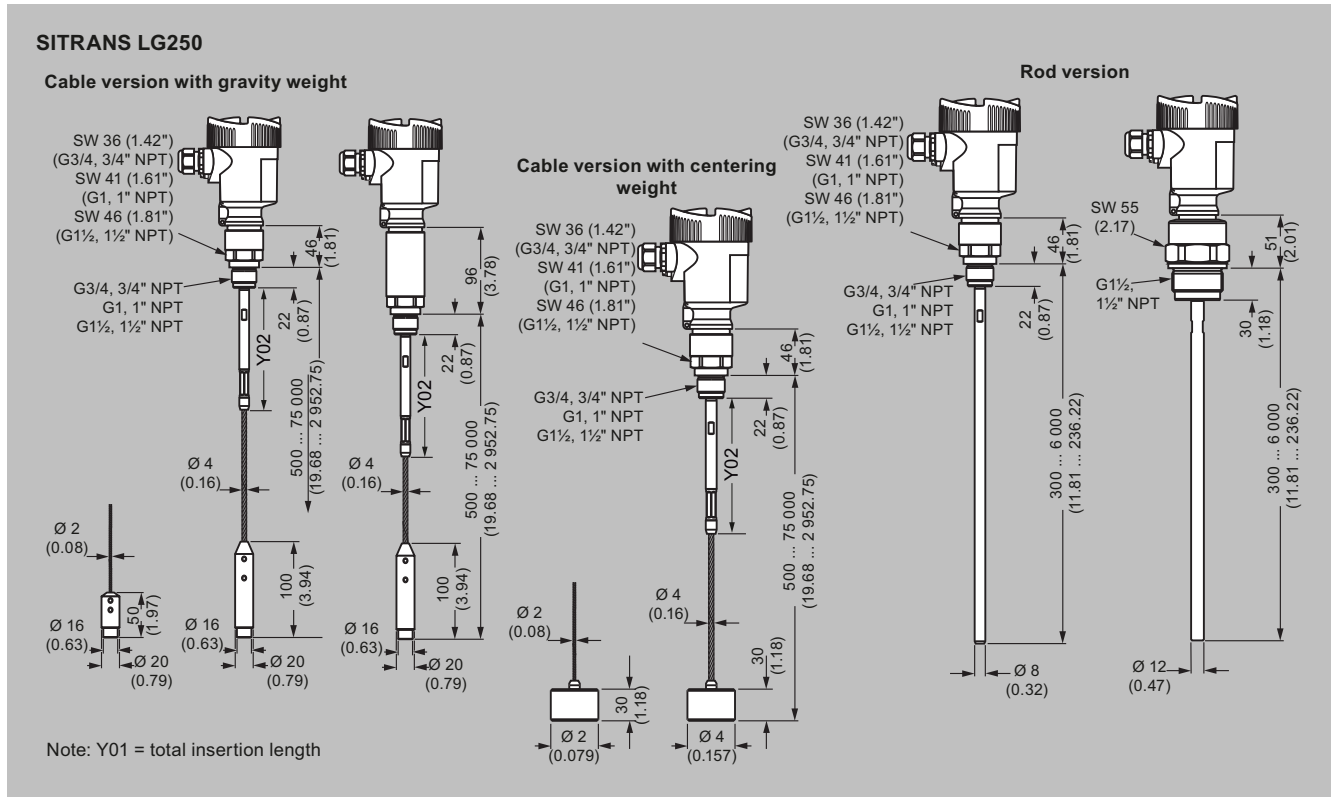
SITRANS LG240, dimensions in mm (inch)

Level Measurement

Continuous level measurement

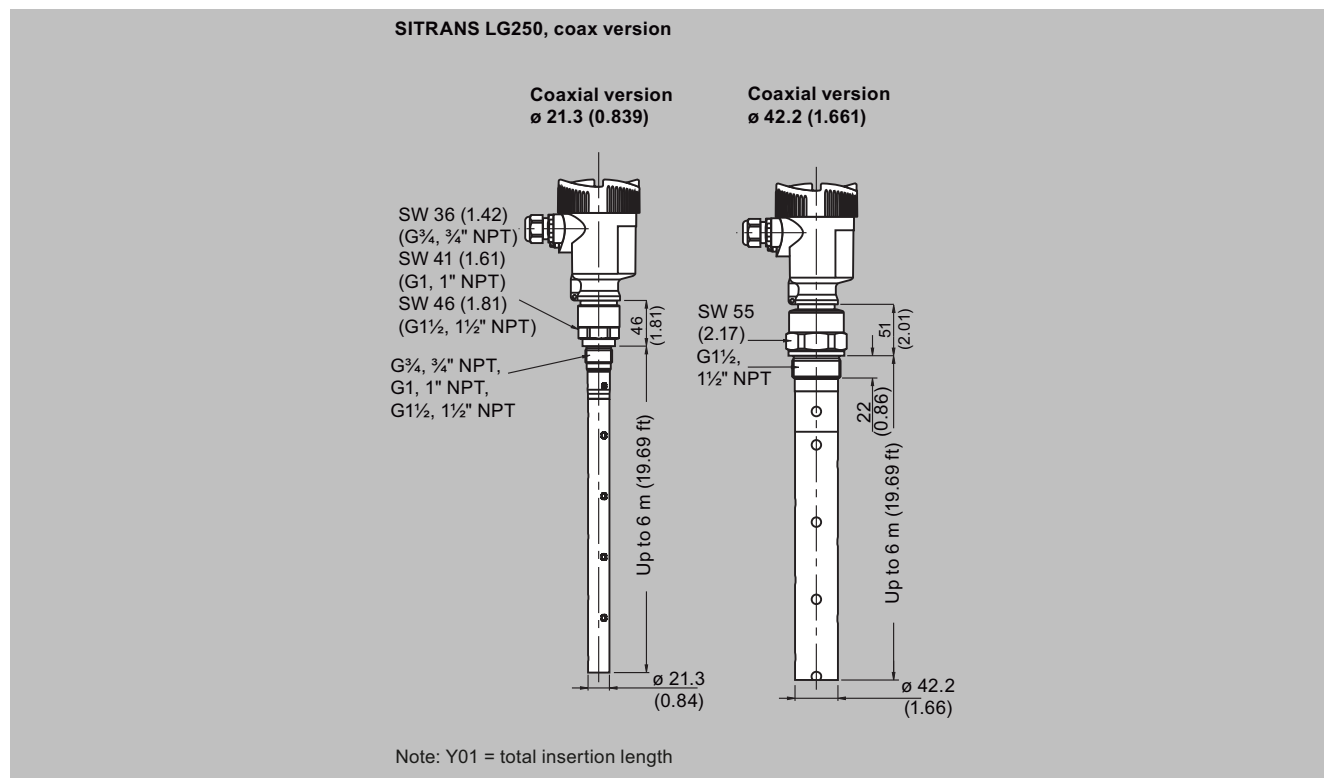
Guided wave radar transmitters / SITRANS LG series

Dimensional drawings (continued)



SITRANS LG250, dimensions in mm (inch)

Dimensional drawings (continued)



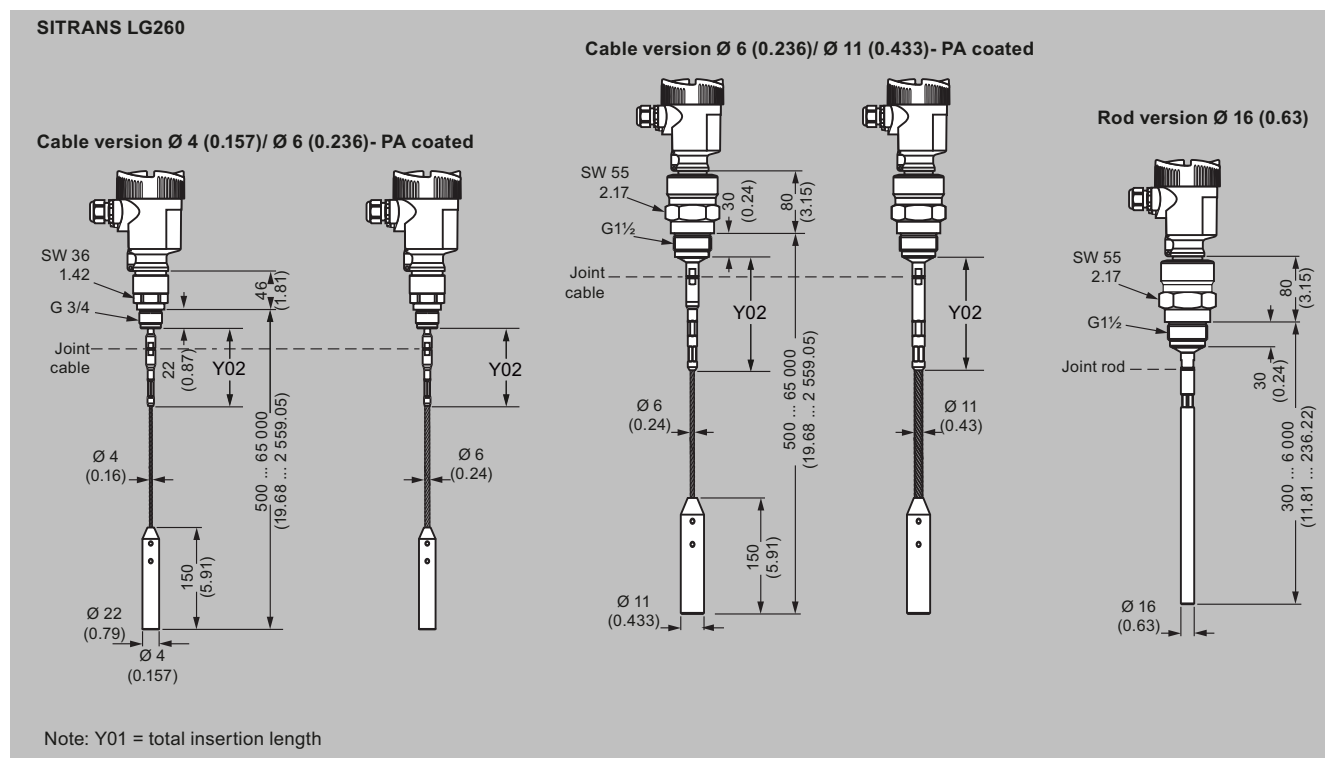
SITRANS LG250, dimensions in mm (inch)

Level Measurement

Continuous level measurement

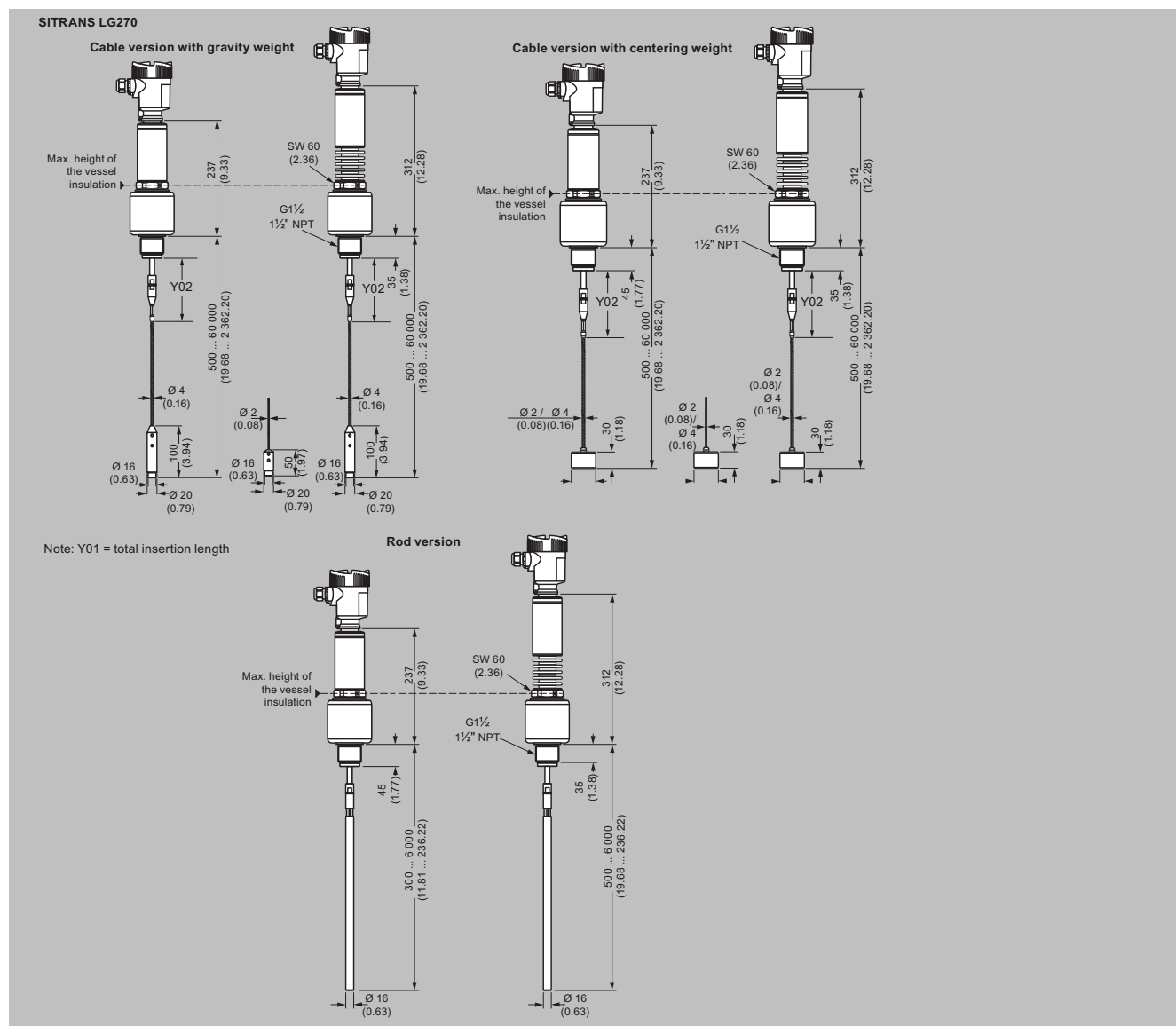
Guided wave radar transmitters / SITRANS LG series

Dimensional drawings (continued)



SITRANS LG260, dimensions in mm (inch)

Dimensional drawings (continued)



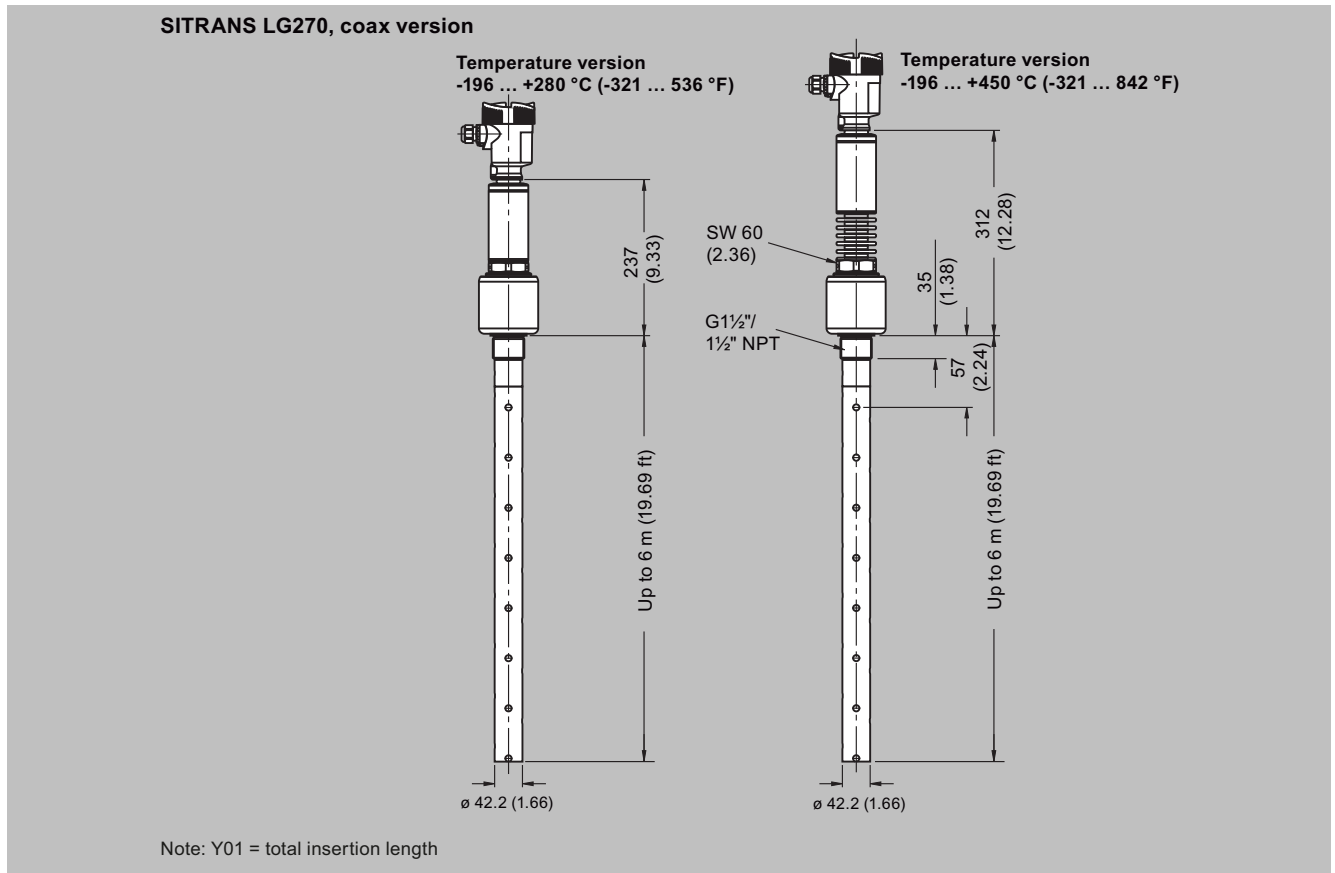
SITRANS LG270, dimensions in mm (inch)

Level Measurement

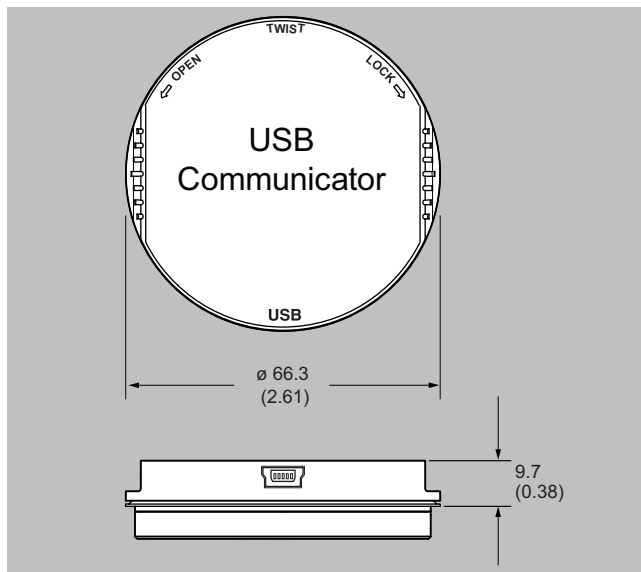
Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

Dimensional drawings (continued)

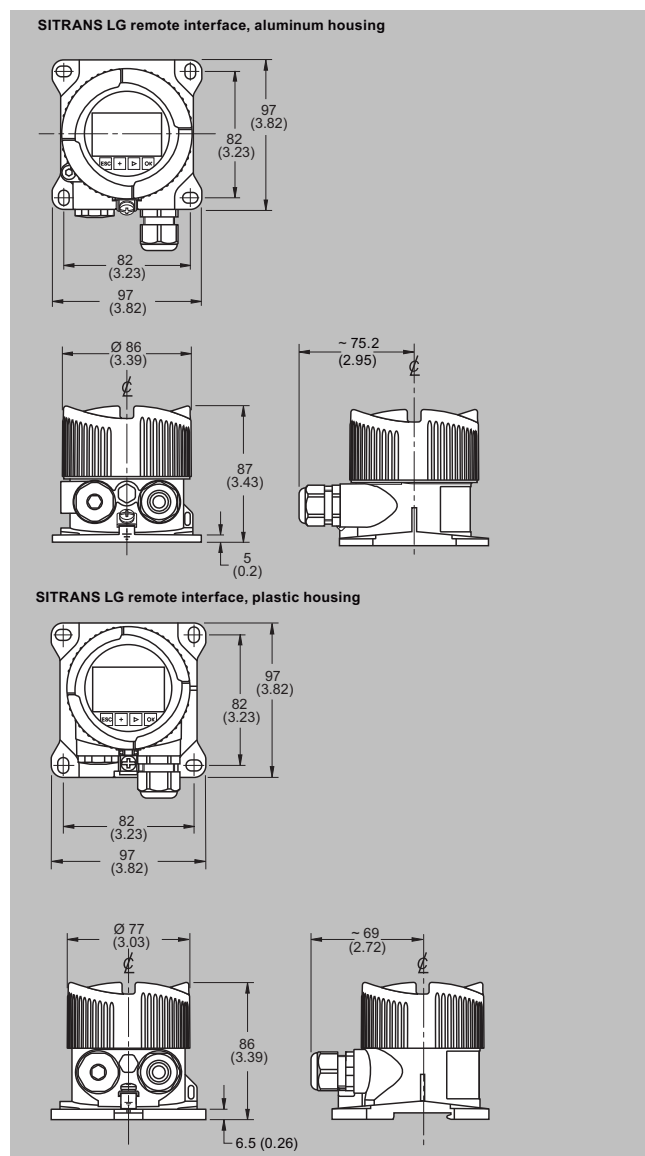


SITRANS LG270, dimensions in mm (inch)



SITRANS LG USB Communicator, dimensions in mm (inch)

Dimensional drawings (continued)



SITRANS LG remote interface, dimensions in mm (inch)

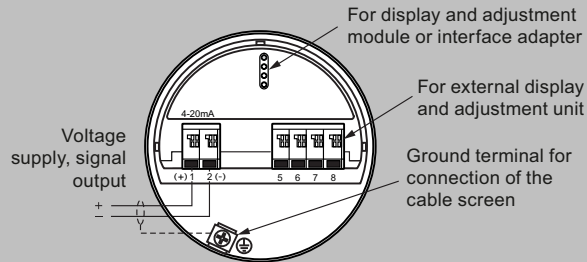
Level Measurement

Continuous level measurement

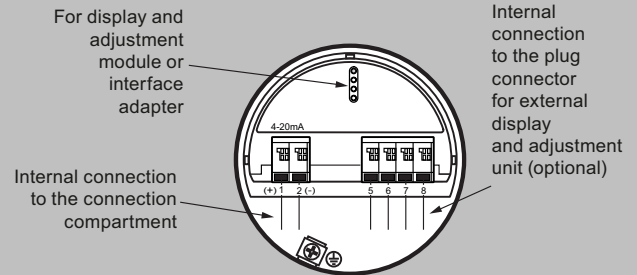
Guided wave radar transmitters / SITRANS LG series

Circuit diagrams

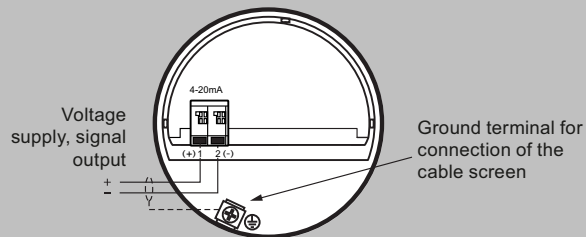
2-wire HART electronic option, electronics and connection compartment, single chamber housing



2-wire HART electronic option, electronics compartment, double chamber housing



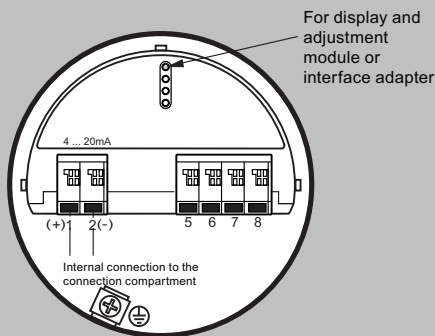
2-wire HART electronic option, connection compartment, Ex-d-ia double chamber housing



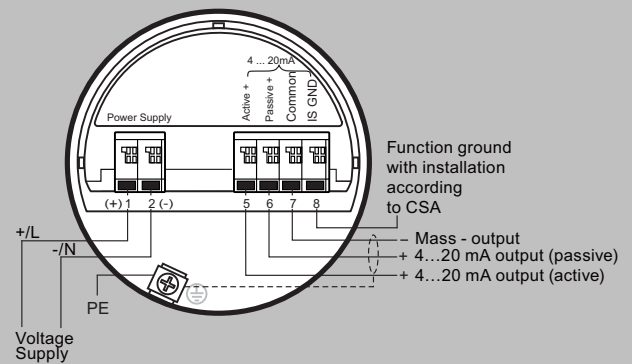
Note: All 2-wire HART connections and electronics are also available with SIL qualification.

SITRANS LG series connections

4-wire HART electronic option, electronics compartment, double chamber housing



4-wire electronic option, connection compartment, double chamber housing with mains voltage



SITRANS LG series connections

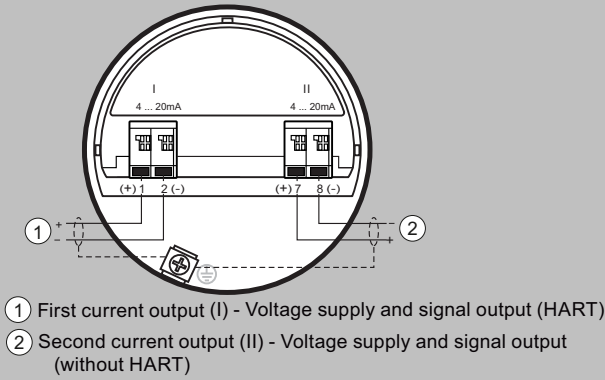
Level Measurement

Continuous level measurement

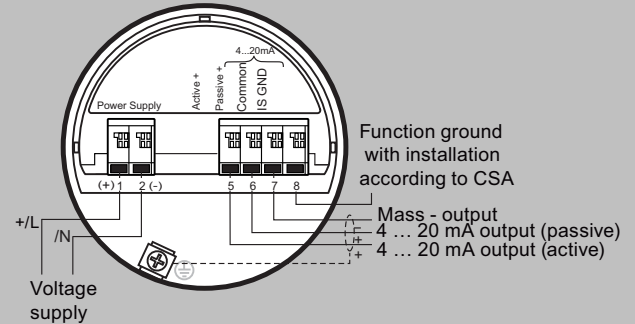
Guided wave radar transmitters / SITRANS LG series

Circuit diagrams (continued)

Supplementary electronics

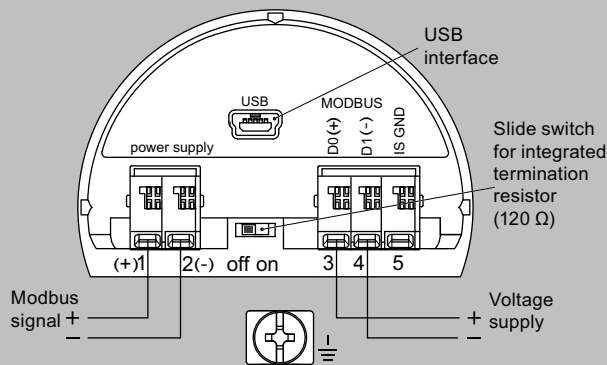


Connection compartment with low voltage

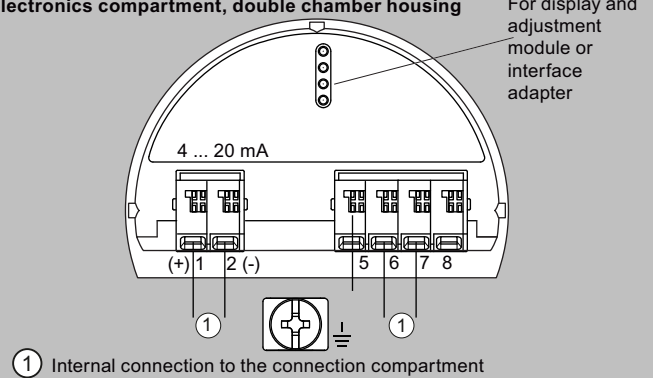


SITRANS LG series connections

Modbus electronic option, connection compartment



Modbus electronic option, electronics compartment, double chamber housing



SITRANS LG series connections

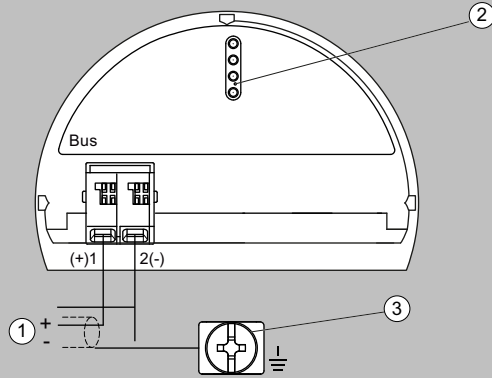
Level Measurement

Continuous level measurement

Guided wave radar transmitters / SITRANS LG series

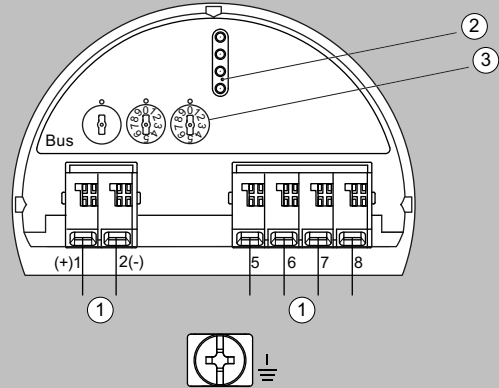
Circuit diagrams (continued)

PROFIBUS electronic option, connection compartment, double chamber housing



- ① Voltage supply, signal output
- ② For display and adjustment module or interface adapter
- ③ Ground terminal for connection of the cable screen

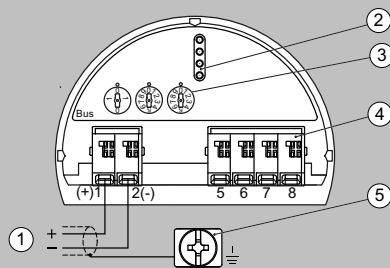
PROFIBUS electronic option, electronics compartment, double chamber housing



- ① Internal connection to the connection compartment
- ② Contact pins for the display and adjustment module or interface adapter
- ③ Selection switch for bus address

LG series connections

PROFIBUS electronic option, electronics and connection compartment, single chamber housing

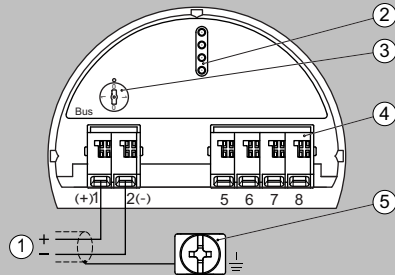


- ① Voltage supply, signal output
- ② For display and adjustment module or interface adapter
- ③ Selection switch for bus address
- ④ For external display and adjustment unit
- ⑤ Ground terminal for connection of the cable screen

LG series connections

Circuit diagrams (continued)

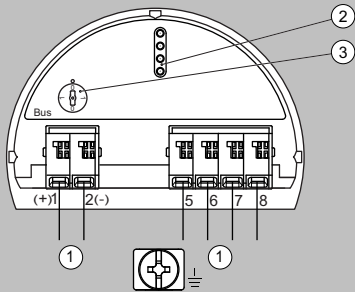
LG series, FOUNDATION Fieldbus electronic option, electronic and terminal compartment, single chamber housing



- ① Voltage supply, signal output
- ② Contact pins for the display and adjustment module or interface adapter
- ③ Simulation switch ("1" = mode for simulation release)
- ④ For external display and adjustment unit
- ⑤ Ground terminal for connection of the cable screen

LG series connections

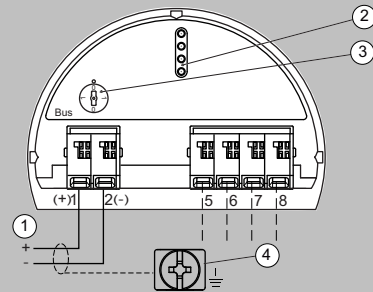
LG series, FOUNDATION Fieldbus electronic option, electronic compartment, double chamber housing



- ① Internal connection to the connection compartment
- ② Contact pins for the display and adjustment module or interface adapter
- ③ Simulation switch ("on" = simulation mode)

LG series connections

LG series, FOUNDATION Fieldbus electronic option, terminal compartment, double chamber housing



- ① Voltage supply, signal output
- ② For display and adjustment module or interface adapter
- ③ For external display and adjustment unit
- ④ Ground terminal for connection of the cable screen