

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

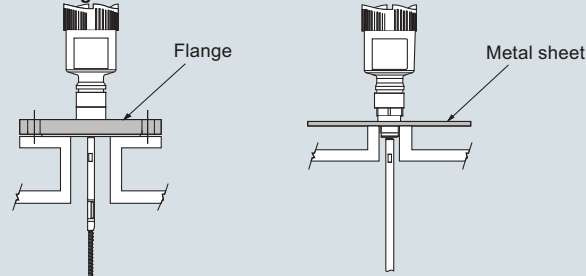
Application

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

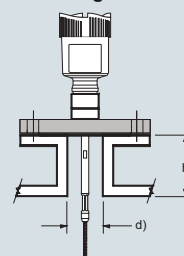
Mounting on nozzle



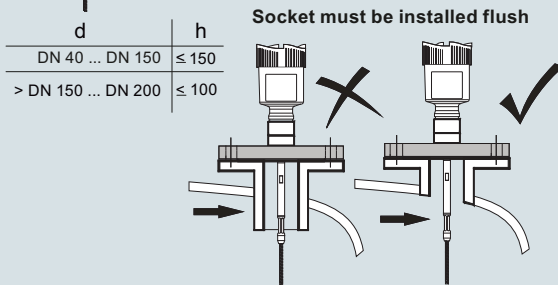
Installation in non-metal vessel

The guided microwave principle requires a metal surface on the process fitting. Therefore, use in plastic vessels etc. an instrument version with flange (from DN 50) or place a metal sheet, $\varnothing > 200$ mm (8 inch), beneath the process fitting when screwing it in. Make sure that the plate has direct contact with the process fitting

Mounting socket



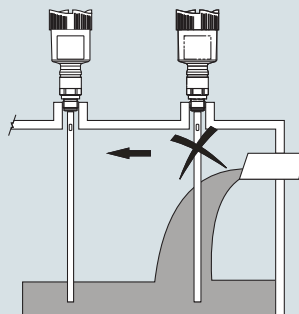
If possible, avoid sockets, mount the sensor flush with the vessel top. If this is not possible, use short sockets with small diameter. Higher sockets or sockets with a bigger diameter can generally be used. They simply increase the upper blocking distance. Check if this is relevant for your measurement. In such cases, always carry out a false signal suppression after installation.



Socket must be installed flush

When welding the socket, make sure that the socket is flush to the vessel top.

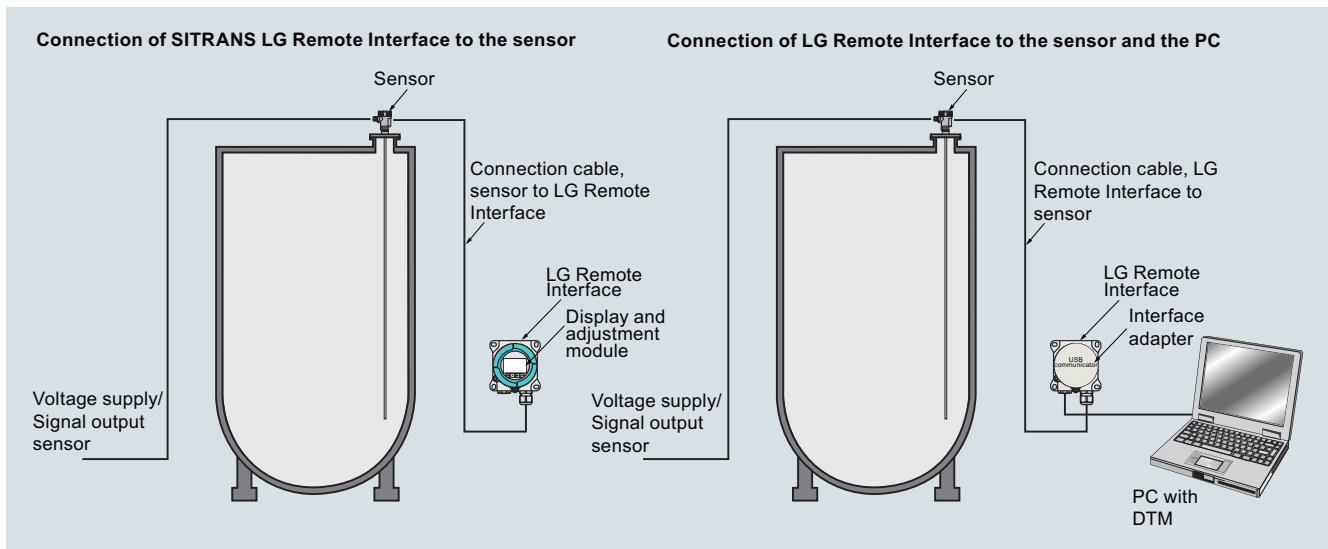
Before beginning the welding work, remove the electronics module from the sensor. By doing this, you avoid damage to the electronics through inductive coupling.



Inflowing medium

Do not mount the instruments in or above the filling stream. Make sure that you detect the product surface, not the inflowing product.

SITRANS LG Series installation



SITRANS LG Remote Interface installation

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Technical specifications

Mode of operation		Medium conditions	
Measuring principle	Guided wave radar measurement	Dielectric constant	dK ≥ 1.4 (configuration dependent)
Measuring range	300 ... 75 000 mm (11.81 ... 2 952.75 inch)	Process temperature range	-196 ... +450 °C (-321 ... +842 °F)
Output		Vessel pressure	-1 ... +400 bar (-100 ... +40 000 kPa)
mA analog output with HART digital signal	4 ... 20 mA/HART (SIL optional)	Design	
Output range	Current: minimum 3.8 mA, maximum 20.5 mA	Instrument weight (dependent on process fitting) - see manual for further details	Approx. 0.8 ... 8 kg (0.176 ... 17.64 lb)
• Analog	≤ 10 mA for 5 ms after switching on, ≤ 3.6 mA	Materials	• 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
• Startup current		• Enclosure	
Diagnostic alarm	Failure signal current output (adjustable): last valid measured value, ≥ 21 mA, ≤ 3.6 mA	• Degree of protection	
Digital communication	HART Version 7 x and multidrop compatible	• Cable inlet	
Modbus	Modbus RTU, Modbus ASCII	Process connections	G $\frac{3}{4}$ " A, G1" A, G1 $\frac{1}{2}$ " A according to DIN 3852-A G $\frac{3}{4}$ " NPT, 1" NPT, 1 $\frac{1}{2}$ " NPT DIN from DN 25, ASME from 1" Hygienic fittings 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
PROFIBUS PA	PROFIBUS PA profile 3.02	• American pipe thread, conical (ASME B1.20.1)	
FOUNDATION Fieldbus	FOUNDATION Fieldbus protocol Physical layer according to IEC 61158-2	• Flanged	
		• Hygienic	
Performance		Process seal instrument side	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 feed-through in the lower part of the housing, preventing product from penetrating into the housing.
• Measuring cycle time	Process reference conditions according to DIN EN 61298-1	Second line of defense (glass seal) (optional)	
• Step response time	< 500 ms		
• Temperature Effects	≤ 3 s		
Non-linearity	The measurement error from the process conditions is in the specified pressure and temperature range of below 1 %		
• 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		Programming	
Ambient temperature for enclosure	-40 ... +80 °C (-40 ... +176 °F)	Local	Four button, menu-driven data entry
LCD readable temperature range	-40 ... +80 °C (-40 ... +176 °F) with display heated option	Handheld communicator	Hart communicator
Location	Indoor/outdoor	PC	SIMATIC PDM, AMS, PACTware
Installation category	II	Power	
Pollution degree	2	2-wire Hart version	9.6 ... 35 V DC
Relative Humidity	20 ... 85 %	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

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Industries	SITRANS LG240 Food, Beverage and Pharmaceutical	SITRANS LG250 Chemical/HPI/Power/General	SITRANS LG260 Cement, power generation, food, processing, mineral pro- cessing, 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
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)
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

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Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids.		
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Approvals		
General purpose (CSA, FM, CE)	0 A	
Overfill protection (WHG; VLAREM) ¹¹⁾	0 C	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ¹⁴⁾	0 E	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG;VLAREM) ¹¹⁾	0 F	
ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ³⁾¹⁵⁾¹⁷⁾	0 H	
ATEX II 1/2G, 2G Ex d ia IIC T6 ³⁾¹³⁾¹⁶⁾	0 J	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ³⁾¹³⁾¹⁶⁾¹⁷⁾	0 K	
ATEX II 1D, 1/2D, 2D IP6x ¹⁾¹⁷⁾¹⁸⁾	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⁾¹⁴⁾	0 W	
IEC Ex ia IIC T6 ¹⁴⁾	0 P	
IEC Ex ia IIC T6 + IEC IP6x T tD ¹⁾¹⁵⁾¹⁷⁾	0 Q	
IEC Ex d ia IIC T6 ³⁾¹³⁾¹⁶⁾	0 R	
IEC Ex d ia IIC T6 + IEC IP6x T tD ³⁾¹³⁾¹⁶⁾	0 S	
FM (NI) Class I, Div. 2, Groups A, B, C, D ⁹⁾¹⁶⁾	1 A	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁹⁾¹⁵⁾	1 B	
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ³⁾¹³⁾¹⁶⁾	1 C	
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ¹⁾⁵⁾¹⁷⁾	1 E	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾	1 F	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ³⁾¹³⁾¹⁶⁾	1 G	
NEPSI Ex ia IIC T6 ¹⁴⁾	2 A	
NEPSI Ex ia IIC T6 + DIP A20/21 TA T ^{*1)15)}	2 B	
NEPSI Ex d ia IIC T6 ⁹⁾¹⁰⁾¹³⁾¹⁶⁾	2 C	
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ^{*9)10)13)16)}	2 D	
NEPSI DIP A20/21 TA T ^{*1)16)}	2 G	
INMETRO Ex ia IIC T6 ... T1 ¹⁴⁾	3 A	
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ¹⁾¹⁰⁾¹⁵⁾	3 B	
INMETRO Ex d ia IIC T6 ... T1 ⁹⁾¹⁰⁾¹³⁾¹⁶⁾	3 C	
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ⁹⁾¹⁰⁾¹³⁾¹⁶⁾	3 D	
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db ¹⁾¹⁰⁾¹³⁾¹⁶⁾	3 G	
Korea KC ex free area	6 A	
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ¹⁴⁾	5 A	
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIC T ... IP66 ¹⁾¹⁵⁾	5 B	
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ⁹⁾¹⁰⁾¹³⁾¹⁶⁾	5 C	
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIC T ... IP66 ⁹⁾¹⁰⁾¹³⁾¹⁶⁾	5 D	

Selection and Ordering data	Article No.	Ord. Code
SITRANS LG240	7ML5880-	
Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids.		
Note: Version/Material, Process fitting/Material, and Length options are available only with options of corresponding type.		
Probe version/Material		
Probe cable ø 4 mm (0.16 inch) with gravity weight/PFA ¹⁷⁾	A	
Note: max. insertion length is 6 000 mm when 5 point calibration certificate is selected.		
Probe exchangeable rod ø 8 mm (0.31 inch)/ 1.4435 (Basle standard) ¹⁷⁾	B	
Probe exchangeable rod ø 8 mm (0.31 inch)/ 1.4435 (Basle standard) can be autoclaved ¹⁷⁾	C	
Probe rod ø 10 mm (0.39 inch)/PFA ¹⁷⁾	D	
Probe exchangeable rod (ø 8 mm) /1.4435 (BN2), electropolished (Ra < 0.38 µm) ¹⁷⁾	E	
Process fitting/Material		
Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/1.4435 (BN2)	0 0	
Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 1	
Clamp 2 1/2" PN 10 (ø 77.5 mm) DIN 32676, ISO2852/1.4435 (BN2)	0 2	
Clamp 2 1/2" PN 10 (ø 77.5 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 3	
Clamp 3" PN 10 (ø 91 mm) D N 32676, ISO2852/1.4435 (BN2)	0 4	
Clamp 3" PN 10 (ø 91 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 5	
Clamp 4" PN 6 (ø 119 mm) DIN 32676, ISO2852/1.4435(BN2)	0 6	
Clamp 4" PN 6 (ø 119 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 7	
Clamp 1 1/2" PN 16 (ø 50.5 mm) DIN 32676, ISO2852/1.4435 (BN2)	4 0	
Bolting DN 32, PN 40 DIN 11851/ 1.4435(BN2)	0 8	
Bolting DN 32, PN 40 DIN 11851/PTFE-TFM 1600	1 0	
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	

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SITRANS LG240	7ML5880-		SITRANS LG240	7ML5880-	
Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids.			Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids.		
Flange DN 80, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600	2 7		Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	P	
Flange DN 100, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600	2 8		Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	Q	
Flange 2" 150 lb RF, ASME B16.5/PTFE-TFM 1600	3 0		Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	R	
Flange 2" 300 lb RF, ASME B16.5/PTFE-TFM 1600	3 1		Aluminum single chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	W	
Flange 3" 150 lb RF, ASME B16.5/PTFE-TFM 1600	3 2		Aluminum double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	X	
Flange 4" 150 lb RF, ASME B16.5/PTFE-TFM 1600	3 3		Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	Y	
Note: The pressure limit for all PTFE coated versions is 16 bar (per manual).			Stainless steel double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	S	
Electronics			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
Two-wire 4 ... 20 mA/HART	0		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
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			Lengths		
Without glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁾	A		Rod ø 8 mm (0.31 inch)/1.4435 (Basic standard 300 ... 4 000 mm)		
FFKM (Kalrez 6221)/-20 ... 150 °C (-4 ... +302 °F) ⁴⁾	B		300 ... 1 000 mm (11.81 ... 39.37 inch) ⁶⁾	0	
EPDM (Freudenberg 70 EPDM 291)/-20 ... 130 °C (-4 ... +266 °F) ⁴⁾	C		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁶⁾	1	
Housing/Protection/Cable			2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁶⁾	2	
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC			3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁶⁾	3	
Plastic IP66/IP67 M20 x 1.5/blind stopper	A		Rod ø 10 mm (0.24 inch)/PFA (300 ... 4 000 mm)		
Plastic IP66/IP67 1/2" NPT/blind stopper	B		300 mm (11.81 inch) ⁶⁾	9	R 1 A
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	C		500 mm (19.69 inch) ⁶⁾	9	R 1 B
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	D		300 ... 1 000 mm (11.81 ... 39.37 inch) ⁶⁾	9	R 1 C
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	E		1 001 ... 5 000 mm (39.41 ... 78.74 inch) ⁶⁾	9	R 1 D
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁶⁾	9	R 1 E
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	G		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁶⁾	9	R 1 F
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	H		Cable ø 4 mm (0.16 inch)/PFA (500 ... 32 000 mm)		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	J		500 mm (9.69 inch)	9	R 1 G
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	K		501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 1 H
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	L		1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9	R 1 J
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	M		2 001 ... 4 000 mm (78.78 ... 157.40 inch)	9	R 1 K
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	N		4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9	R 1 L
			5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 1 M
			10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 1 N
			15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 1 P
			20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 1 Q
			25 001 ... 32 000 mm (984.29 ... 1 259.52 inch)	9	R 1 R

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Exchange rod ø 8 mm (0.31 inch)/1.4435 (BN2), electropolished (Ra < 0.38 µm)		
300 ... 1 000 mm (11.81 ... 39.37 inch) ⁶⁾		9 R 2 A
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁶⁾		9 R 2 B
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁶⁾		9 R 2 C
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁶⁾		9 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
French	L02
Dutch	L03
Italian	L04
Spanish	L05
Portuguese	L06
Russian	L07
Chinese	L08
Japanese	L09
Operating instructions	
German	M00
English	M01
French	M02
Spanish	M03

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
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 comma ",", for line break.	Y17
Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a comma ",", 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 (EN10204) 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	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, GWR 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 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-...
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
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 $\varnothing$ 10 mm/PFA and Cable $\varnothing$ 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.

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG250	7ML5881-		SITRANS LG250	7ML5881-	
A guided wave radar sensor for continuous level and interface measurement of liquids.			A guided wave radar sensor for continuous level and interface measurement of liquids.		
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Approvals					
General purpose (CSA, FM, CE)	0 A		CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP) Class II, III, Div. 1, Groups E, F, G ¹⁾	1 E	
Shipping approval ⁽⁴⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽¹³⁾	0 B		CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁵⁾⁽¹³⁾	1 F	
Overfill protection (WHG; VLAREM) ⁽⁹⁾⁽¹⁰⁾⁽¹³⁾	0 C		CSA (XP-IS) Class I, II, III, Div. 1 Groups A, B, C, D, E, F, G ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	1 G	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁽¹⁰⁾⁽¹³⁾	0 E		CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽⁸⁾⁽¹³⁾⁽¹⁴⁾⁽¹⁸⁾	1 H	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁽¹⁰⁾⁽¹³⁾	0 F		CSA (NI) Class I, II, III Div. 2, Groups A, B, C, D, F, G + Ship approval ⁽¹⁾⁽⁶⁾⁽¹³⁾	7 K	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁽⁴⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽¹³⁾	0 G		CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ⁽⁶⁾⁽¹³⁾⁽¹⁶⁾	7 L	
ATEX II 1G, 1/2G, 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ⁽¹⁾⁽¹³⁾	0 H		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	
ATEX II 1/2G, 2G Ex d ia IIC T6 ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	0 J		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	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	0 K		NEPSI Ex ia IIC T6 ⁽⁵⁾⁽¹³⁾	2 A	
ATEX II 1/2G, 2G Ex d IIC T6 ⁽¹⁾⁽¹¹⁾⁽¹⁴⁾	0 L		NEPSI Ex ia IIC T6 + DIP A20/21 TA T* ⁽¹⁾⁽¹³⁾	2 B	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	0 M		NEPSI Ex d ia IIC T6 ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾	2 C	
ATEX II 1D, 1/2D, 2D IP6x T ⁽¹⁾⁽¹³⁾⁽¹⁴⁾	0 N		NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾	2 D	
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 ⁽¹³⁾	0 W		NEPSI Ex d IIC T6 ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	2 E	
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		NEPSI Ex d IIC T6 + DIP A20/21 TA T* ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	2 F	
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		NEPSI DIP A20/21 TA T* ⁽¹⁾⁽¹³⁾⁽¹⁴⁾	2 G	
ATEX II 1/2G, II 2G Ex db IIC T6...T1 Ga/Gb, Gb + Ship approval ⁽¹⁾⁽⁶⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾	7 B		INMETRO Ex ia IIC T6 ... T1 ⁽⁵⁾⁽¹³⁾	3 A	
IEC Ex ia IIC T6 ⁽¹⁰⁾⁽¹³⁾	0 P		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ⁽¹⁾⁽¹¹⁾⁽¹³⁾	3 B	
IEC Ex ia IIC T6 + IEC IP6x T tD ⁽¹⁾⁽¹⁴⁾⁽¹⁵⁾	0 Q		INMETRO Ex d ia IIC T6 ... T1 ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾	3 C	
IEC Ex d ia IIC T6 ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	0 R		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	
IEC Ex d ia IIC T6 + IEC IP6x T tD ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾⁽¹⁵⁾	0 S		INMETRO Ex d IIC T6 ... T1 ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	3 E	
IEC Ex d IIC T6 ⁽¹⁾⁽¹¹⁾⁽¹⁴⁾	0 T		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	3 F	
IEC Ex d IIC T6 + IEC IP6x T tD ⁽¹⁾⁽¹¹⁾⁽¹⁴⁾	0 U		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	3 G	
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb + Ship approval ⁽¹⁾⁽⁶⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	7 C		KOSHA Ex d IIC T6 ... T1 – KE ⁽¹⁾⁽¹¹⁾⁽¹³⁾⁽¹⁴⁾	4 A	
IEC Ex ia IIC T6 ... T1 Ga, Ga/Gb, Gb + Ship approval ⁽⁶⁾⁽⁸⁾⁽¹³⁾⁽¹⁶⁾	7 D		Korea KC ex free area	6 A	
IEC Ex d ia IIC T6 ... T1 Ga/Gb, Gb + Ship approval ⁽²⁾⁽⁶⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾⁽¹⁵⁾	7 E		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ⁽¹³⁾	5 A	
FM (NI) Class I, Div. 2, Groups A, B, C, D ⁽³⁾⁽⁸⁾⁽¹³⁾⁽¹⁷⁾	1 A		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽¹⁾⁽¹³⁾	5 B	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁽⁵⁾⁽⁸⁾⁽¹³⁾	1 B		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾	5 C	
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹²⁾⁽¹³⁾	1 C		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽²⁾⁽⁸⁾⁽¹¹⁾⁽¹³⁾	5 D	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁽²⁾⁽¹¹⁾⁽¹⁴⁾	1 D		GOST-R/EAC 1 Ex d IIC T1 ... T6 X ⁽¹⁾⁽¹¹⁾⁽¹³⁾	5 E	
FM (NI) Class I, II, III, Div. 2, Groups A, B, C, D, F, G + Ship approval ⁽⁶⁾⁽⁸⁾⁽¹³⁾⁽¹⁷⁾⁽³³⁾	7 F		GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽¹⁾⁽¹¹⁾⁽¹³⁾	5 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		GOST-R/EAC Ex t IIIC T ... IP66 ⁽¹⁾⁽¹³⁾	5 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				
			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/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	A	
			Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	B	
			Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	C	

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG250	7ML5881-		SITRANS LG250	7ML5881-	
A guided wave radar sensor for continuous level and interface measurement of liquids.			A guided wave radar sensor for continuous level and interface measurement of liquids.		
Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	D		Flange DN 50 PN 40 EN 1092-1 Form B1/316L	3 3	
Probe exchangeable rod ø 8 mm (0.31 inch)/316L ⁽⁹⁾⁽¹⁹⁾	E		Flange DN 80 PN 40 EN 1092-1 Form B1/316L	3 4	
Probe exchangeable rod ø 12 mm (0.47 inch)/316L ⁽⁹⁾⁽¹⁹⁾	F		Flange 1" 150 lb RF, ASME B16.5/316L	3 5	
Probe coax version ø 21.3 mm (0.84 inch) with single hole/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	G		Flange 1 1/2" 150 lb RF, ASME B16.5/316L	3 6	
Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	H		Flange 2" 150 lb RF, ASME B16.5/316L	3 7	
Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ⁽⁹⁾⁽¹⁹⁾⁽²⁰⁾	K		Flange 2" 300 lb RF, ASME B16.5/316L	3 8	
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/Alloy C22 (2.4602) ⁽⁹⁾	L		Flange 3" 150 lb RF, ASME B16.5/316L	4 0	
Probe exchangeable cable ø 4 mm (0.16 inch) with centre weight/Alloy C22 (2.4602) ⁽⁹⁾	M		Flange 3" 300 lb RF, ASME B16.5/316L	4 1	
Probe exchangeable rod ø 8 mm (0.31 inch)/Alloy C22 (2.4602) ⁽⁹⁾	N		Flange 4" 150 lb RF, ASME B16.5/316L	4 2	
Probe exchangeable rod ø 12 mm (0.47 inch)/Alloy C22 (2.4602) ⁽⁹⁾	P		Flange 4" 300 lb RF, ASME B16.5/316L	4 3	
Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/Alloy C22 (2.4602) ⁽⁹⁾	Q		Flange 6" 150 lb RF, ASME B16.5/316L	4 4	
Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602) ⁽⁹⁾	R		Flange 6" 300 lb RF, ASME B16.5/316L	4 5	
Probe exchangeable rod ø 8 mm (0.31 inch)/Duplex (1.4462) ⁽⁹⁾	S		Thread G 3/4" PN 40, DIN3852-A / Alloy C22 (2.4602)	4 6	
Exchangeable rod ø 12 mm (0.47 inch)/Alloy C22 and 400 (2.4360) ⁽⁹⁾	T		Thread G 1" PN 40, DIN 3852-A/ Alloy C22 (2.4602)	4 7	
Exchangeable coated cable ø 4 mm with uncoated centering weight/PFA and 316 ⁽²⁾⁽¹⁾⁽²⁴⁾⁽³⁰⁾⁽³⁵⁾⁽³⁶⁾	U		Thread G 1 1/2" PN 40, DIN 3852-A/ Alloy C22 (2.4602)	4 8	
Process fitting/Material			Thread 1 1/2" NPT PN 40, ASME B1.20.1/ Alloy C22 (2.4602)	5 0	
Thread G 3/4" (DIN 3852-A) PN 6/316L	0 0		Flange DN 50 PN 40 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating	5 1	
Thread 3/4" NPT (ASME B1.20.1) PN 6/316L	0 1		Flange DN 50 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	5 2	
Thread G 3/4" (DIN 3852-A) PN 40/316L	0 2		Flange DN 80 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	5 3	
Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	0 3		Flange DN 100 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	5 4	
Thread G 3/4" (DIN 3852-A) PN 100 / 316L ⁽²²⁾	0 4		Flange DN 150 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	5 5	
Thread 3/4" NPT (ASME B1.20.1) PN 100/ 316L ⁽²²⁾	0 5		Flange DN 200 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	5 6	
Thread G 1" (DIN 3852-A) PN 40/316L	0 6		Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 7	
Thread 1" NPT (ASME B1.20.1) PN 40/316L	0 7		Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 8	
Thread G 1" (DIN 3852-A) PN 100/316L ⁽²²⁾	0 8		Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 0	
Thread 1" NPT (ASME B1.20.1) PN 100/316L ⁽²²⁾	1 0		Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 1	
Thread G 1 1/2" (DIN 3852-A) PN 40/316L	1 1		Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 2	
Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	1 2		Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 3	
Thread G1 1/2" (DIN 3852-A) PN 100/316L ⁽²²⁾	1 3		Flange 6" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 4	
Thread 1 1/2" NPT (ASME B1.20.1) PN 100/ 316L ⁽²²⁾	1 4		Thread G 3/4" (DIN 3852-A) PN 40/Duplex 1.4462	6 5	
Thread 2 NPT PN 40, ASME B1.20.1/316L ⁽²³⁾⁽²⁴⁾	1 5		Flange DN 80 PN 40 Form F, DIN 2501/Duplex (1.4462)	6 6	
Flange DN 25 PN 40 Form C, DIN 2501/316L	2 0		Flange DN 50 PN 40 Form B1, EN 1092-1/ Duplex (1.4462)	6 7	
Flange DN 25 PN 40 Form F, DIN 2501/316L	2 1		Flange 1" 150 lb RF, ASME16.5/Duplex (1.4462)	6 8	
Flange DN 40 PN 40 Form C, DIN 2501/316L	2 2		Flange 1 1/2" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 0	
Flange DN 50 PN 40 Form C, DIN 2501/316L	2 3		Flange 2" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 1	
Flange DN 50 PN 40 Form V13, DIN 2513/316L	2 4		Flange 2" 300 lb RF, ASME B16.5/Duplex (1.4462)	7 2	
Flange DN 80 PN 40 Form C, DIN 2501/316L	2 5		Flange 2" 600 lb RF, ASME B16.5/Duplex (1.4462)	7 3	
Flange DN 80 PN 40 Form V13, DIN 2501/316L	2 6		Flange 3" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 4	
Flange DN 100 PN 16 Form C, DIN 2501/316L	2 7		Flange 3" 300 lb RF, ASME B16.5/Duplex (1.4462)	7 5	
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				

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG250	7ML5881-		SITRANS LG250	7ML5881-	
A guided wave radar sensor for continuous level and interface measurement of liquids.			A guided wave radar sensor for continuous level and interface measurement of liquids.		
Flange 4" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 6		Electronics		
Flange 4" 150 lb FF, ASME B16.5/Duplex (1.4462)	7 7		Two-wire 4 ... 20 mA/HART	0	
Flange 4" 300 lb RF, ASME B16.5/Duplex (1.4462)	7 8		Four-wire Modbus ²⁾⁸⁾¹¹⁾	1	
Flange 4" 600 lb RF, ASME B16.5/Duplex (1.4462)	8 0		Two-wire 4 ... 20 mA/HART with SIL qualification ⁹⁾¹⁰⁾	2	
Thread 1 1/2" NPT PN 40, ASME B1.20.1/ Alloy 400 (2.4360)	8 1		Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60Hz ²⁾⁸⁾¹¹⁾³⁴⁾	3	
Flange 2" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 2		Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ²⁾⁸⁾¹¹⁾³⁴⁾	4	
Flange 2" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) solid	8 3		PROFIBUS PA ⁵⁾⁸⁾	5	
Flange 3" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 4		FOUNDATION Fieldbus ⁵⁾⁸⁾	6	
Flange 3" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 5		Seal/Second line of defense/ Process temperature		
Flange 3" 300 lb RJF, ASME B16.5/Alloy 400 (2.4360)	8 6		FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)	A	
Flange 4" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 7		FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)	B	
Flange 4" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 8		FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾	C	
Flange DN 25 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) solid	9 0	L 1 A	FFKM (Kalrez 6375)/without/-20 ... 150 °C (-4 ... +302 °F)	D	
Flange DN 25 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid	9 0	L 1 B	FFKM (Kalrez 6375)/with/-20 ... +150 °C (-4 ... +302 °F) ⁵⁾	E	
Flange DN 80 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid	9 0	L 1 C	FFKM (Kalrez 6375)/with glass seal/-20 ... +200 °C (-4 ... +392 °F) ²⁶⁾	F	
Flange 1" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 D	EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)	G	
Flange 1 1/2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 E	EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾	H	
Flange 1 1/2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 F	EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾	J	
Flange 2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 G	Silicone FEP coated (A+P FEP-O-SEAL)/ without glass seal/-40 ... +80 °C (-40 ... +176 °F)	K	
Flange 2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 H	Silicone FEP coated (A+P FEP-O-SEAL)/ without glass seal/-40 ... +150 °C (-40 ... +302 °F)	L	
Flange 2" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 J	Silicone FEP coated (A+P FEP-O-SEAL)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) ²⁶⁾	M	
Flange 2" 1500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 K	With borosilicate glass lead through for volatile substances, e.g. ammonia/with glass seal/-60 ... +150 °C (-76 ... +302 °F) ²⁶⁾	N	
Flange 3" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 L	FFKM (Kalrez 6375)/without glass seal/-20 ... +200 °C (-4 ... +392 °F)	P	
Flange 3" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 M	FFKM (Kalrez 6375)/with glass seal/-40 ... 80 °C (-40 ... +176 °F) ²⁶⁾	Q	
Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	9 0	L 1 N	Housing/Protection/Cable		
Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 P	Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC		
Flange 4" 150 lb FF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 Q	Plastic IP66/IP67 M20 x 1.5/blind stopper ⁹⁾¹¹⁾	A	
Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 R	Plastic IP66/IP67 1/2" NPT/blind stopper ⁹⁾¹¹⁾	B	
Flange 4" 300 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 S	Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper	G	
Flange 4" 300 lb LT, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 T	Plastic 2-chamber/IP66/IP67 /1/2" NPT/blind stopper	H	
Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 U	Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Blind stopper ⁸⁾¹¹⁾	C	
Flange 6" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 V	Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper ⁸⁾¹¹⁾	D	
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			

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG250	7ML5881-		SITRANS LG250	7ML5881-	
A guided wave radar sensor for continuous level and interface measurement of liquids.			A guided wave radar sensor for continuous level and interface measurement of liquids.		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5 / Blind stopper		E	Lengths		
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		F	<u>Rod ø 8 mm/316L</u>		
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper ⁹⁾¹¹⁾		L	300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾	0	
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper ⁹⁾¹¹⁾		M	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾	1	
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper ⁹⁾¹¹⁾		N	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾	2	
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper ⁹⁾¹¹⁾		P	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾	3	
Stainless Steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper		Q	4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾	4	
Stainless Steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		R	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾	5	
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland stainless steel ⁹⁾¹¹⁾		S	<u>Rod ø 8 mm/Duplex</u>		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		T	300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾	9	R1 A
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel ¹¹⁾²⁸⁾		U	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾	9	R1 B
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel ¹¹⁾²⁸⁾		V	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾	9	R1 C
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated		W	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾	9	R1 D
Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated		X	4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁹⁾	9	R1 E
Stainless steel single chamber (precision casting)/IP66/ IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated		Y	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁹⁾	9	R1 F
Stainless steel double chamber / IP66/ IP68 (0.2 bar) M20 x 1.5 / Cable gland brass nickel-plated		J	<u>Rod ø 12 mm/Alloy C22 and 400</u>		
Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Plug connector Harting HAN 7D (straight)		Z	300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁹⁾	9	R1 J
Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Special HARTING plug (bent) according to Tier One (ZB7555)		Z	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁹⁾	9	R1 K
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	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁹⁾	9	R1 L
Remote plastic single chamber housing / IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/ blind plug ¹¹⁾²⁷⁾		Z	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁹⁾	9	R1 M
			<u>Cable lengths ø 2 or 4 mm/316L</u>		
			501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R2 A
			1 000 ... 5 000 mm (39.37 ... 196.85 inch)	9	R2 B
			5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R2 C
			10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R2 D
			15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R2 E
			20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R2 F
			25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9	R2 G
			30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9	R2 H
			35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9	R2 J
			40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9	R2 K
			45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9	R2 L
			50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9	R2 M
			55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9	R2 N
			60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	9	R2 P
			65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	9	R2 Q
			70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)	9	R2 R
				9	R2 S
				9	R2 T
				9	R2 U
				9	R2 V

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG250	7ML5881-		SITRANS LG250	7ML5881-	
A guided wave radar sensor for continuous level and interface measurement of liquids.			A guided wave radar sensor for continuous level and interface measurement of liquids.		
<u>Cable Lengths ø 2 mm or ø 4 mm/Alloy C22</u>			<u>Cable lengths ø 4 mm PFA</u>		
501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 4 A	300 ... 1 000 mm (12 ... 39.37 inch)		9 R 6 A
1 001 ... 5 000 mm (39.41 ... 196.85 inch)		9 R 4 B	1 001 ... 2 000 mm (39.41 ... 78.74 inch)		9 R 6 B
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 4 C	2 001 ... 5 000 mm (78.77 ... 196.85 inch)		9 R 6 C
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 4 D	5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 6 D
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 4 E	10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 6 E
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 4 F	15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 6 F
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 4 G	20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 6 G
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 4 H	25 001 ... 32 000 mm (984.29 ... 1 259.84 inch)		9 R 6 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			
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			
			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	
			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	
			Operating instructions		
			German	M00	
			English	M01	
			French	M02	
			Spanish	M03	

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code	Selection and Ordering data	Article No
Further designs (optional)		Operating Instructions	
Please add "-Z" to Article No. and specify Order code(s).		All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Enter the total insertion length in plain text description	Y01	Accessories	
Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm	Y02	SITRANS LG, GWR sensor Display Module	A5E34143449
Remote electronic cable lengths: 2 m (6.6 ft). Only available with Housing options Q2A and Q2B	Y10	SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
Remote electronic cable lengths: 5 m (16.4 ft). Only available with Housing options Q2A and Q2B	Y11	SITRANS LG, USB communicator	A5E35192015
Remote electronic cable lengths: 10 m (32.8 ft). Only available with Housing options Q2A and Q2B	Y12	SITRANS LG, Mounting eye M8 x 20	A5E36653574
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	SITRANS LG, Mounting eye M12 x 20	PBD:51041448
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	SITRANS LG, Mounting spring	PBD:51041449
Material Inspection certificate 3.1 of EN 10204	C05	Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
3.1-Inspection Certificate for instrument (EN 10204) ⁽³⁰⁾	C12	SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
Inspection certificate 3.1 (EN 10204, NACE MR 0175) - material ⁽³⁰⁾⁽³¹⁾	D07	SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
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.		SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
3.1-Inspection Certificate for instrument with test data (EN 10204) ⁽³⁰⁾	C25	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
2.2-Factory certificate for material (EN 10204) ⁽³⁰⁾	C15	For applicable back up point level switch - see point level measurement section	
Quality and test plan ⁽³⁰⁾	C26		
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ⁽³⁰⁾	C13	Note: some configuration options are not available. For restriction information see the online PIA configuration tool.	
X-ray test + 3.1 certificate/instrument ⁽³⁰⁾	C14	1) Not available with Plastic and Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.	
Positive material identification test + 3.1 certificate/instrument ⁽³⁰⁾	C16	2) Available only with Metallic and Double chamber Housing/Protection/Cable options and certain glands.	
Roughness test + 3.1 certificate/instrument ⁽³⁰⁾	C18	3) Not available with Remote or Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.	
Pressure test + 3.1 certificate/instrument ⁽³⁰⁾	C31	4) Not available with Stainless steel (electropolished) Housing/Protection/Cable options and certain glands.	
Helium leak test + 3.1 certificate/instrument ⁽³⁰⁾	C32	5) Not available with certain glands.	
Pressure test according to Norsok + 3.1 certificate/instrument ⁽³⁰⁾	C61	6) Not available with Version/Material option K, L, M, N, P, Q, R, S, T	
5 point calibration certificate (min. length 500 mm) ⁽³⁰⁾	C62	7) Not available with Length options 3, 4, 5, R2C, and R2D.	
Pressure test (acc. to ASME B31.1), incl. 3.1 Inspection certificate ⁽³⁰⁾	C63	8) Available only with Supplementary electronic option A00.	
Certificate suitable for tropical regions with, all attachment parts of metal (2.1 factory certificate) ⁽³⁰⁾	C65	9) Not available with Seal/Second line of defense/Process temperature option N.	
		10) Not available with Housing/Protection/Cable option Q1B.	
		11) Not available with Indicating/adjustment module option E02.	
		12) Not available with Process fitting/Material options 00 and 01.	
		13) Available only with some Electronic options.	
		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, K, 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.	

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

- 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.
- ³³⁾ Available only with Housing/Protection/Cable options C, D, E, F, L, M, N, P, Q, R, S, T, U, V, Q2A, and Q2B.
- 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.

Note: Please consult manual for further details.

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG260	7ML5882-		SITRANS LG260	7ML5882-	
A guided wave radar sensor for level measurement of solids.			A guided wave radar sensor for level measurement of solids.		
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Approvals					
General purpose (CSA, FM, CE) ⁽⁶⁾	0 A		NEPSI Ex d IIC T6 + DIP A20/21 TA T* ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	2 F	
Shipping approval ⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾	0 B		NEPSI DIP A20/21 TA T* ⁽¹⁾⁽⁸⁾	2 G	
Overfill protection (WHG; VLAREM) ⁽⁵⁾⁽⁸⁾	0 C		INMETRO Ex ia IIC T6 ... T1 ⁽⁵⁾⁽⁸⁾	3 A	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁽⁵⁾⁽⁸⁾	0 E		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	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁽⁵⁾⁽⁸⁾	0 F		INMETRO Ex d ia IIC T6 ... T1 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	3 C	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 G		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	
ATEX II 1G, 1/2G, 2G Ex ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁽¹⁾⁽⁵⁾⁽⁸⁾	0 H		INMETRO Ex d IIC T6 ... T1 ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	3 E	
ATEX II 1/2G, 2G Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 J		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	3 F	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ⁽²⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 L		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ⁽¹⁾⁽⁵⁾⁽⁸⁾⁽¹⁰⁾	3 G	
ATEX II 1/2G, 2G Ex d ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	0 M		KOSHA Ex d IIC T6 ... T1 – KE ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	4 A	
ATEX II 1/2G, 2G Ex d IIC T6 ⁽¹⁾⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾	0 N		Korea KC ex free area ⁽⁸⁾	6 A	
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		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ⁽⁸⁾	5 A	
ATEX II 1/2G, 2G Ex d IIC + shipping approval ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾	0 Q		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽¹⁾⁽⁸⁾	5 B	
ATEX II 1/2G, 2G Ex d IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁽¹⁾⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾	0 R		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ⁽²⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	5 C	
ATEX II 1D, 1/2D, 2D IP66 T ⁽¹⁾⁽⁸⁾⁽¹¹⁾	0 S		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽²⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	5 D	
IEC Ex ia IIC T6 ⁽⁵⁾⁽⁸⁾	0 T		GOST-R/EAC 1 Ex d IIC T1 ... T6 X ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	5 E	
IEC Ex ia IIC T6...T1 Ga, Ga/Gb, Gb + Ex t IIIC T ⁽¹⁾⁽⁸⁾⁽¹¹⁾	0 U		GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	5 F	
IEC Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 A		GOST-R/EAC Ex t IIIC T ... IP66 ⁽¹⁾⁽⁸⁾	5 G	
IEC Ex d ia IIC T6 + IEC IP6X T tD ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 B		Note: Version/Material, Process fitting/Material, and Length options are available only with options of corresponding type.		
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb ⁽¹⁾⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾	1 C		Probe version/Material		
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb + IEC Ex t IIIC T ⁽⁸⁾⁽¹⁰⁾⁽¹¹⁾⁽¹⁹⁾	1 D		Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316 ⁽¹³⁾⁽¹⁴⁾	A	
FM (NI) Class I, Div. 2, Groups A, B, C, D ⁽³⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾	1 F		Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316 ⁽¹³⁾⁽¹⁴⁾	B	
FM (NI) Class I, Div. 2, Groups A, B, C, D + Ship approval ⁽³⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 G		Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/PA coated ⁽¹⁵⁾	C	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁽⁵⁾⁽⁸⁾⁽⁹⁾	1 H		Probe exchangeable cable ø 11 mm (0.43 inch) with gravity weight/PA coated ⁽¹⁵⁾	D	
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		Probe exchangeable rod ø 16 mm (0.63 inch)/316L ⁽¹³⁾	E	
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 K		Process fitting/Material		
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		Thread G 3/4" (DIN 3852-A) PN 40/316L	0 0	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	1 M		Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	0 1	
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		Thread G 1" (DIN 3852-A) PN 40/316L	0 2	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽⁵⁾⁽⁸⁾	1 P		Thread 1" NPT (ASME B1.20.1) PN 40/316L	0 3	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	1 Q		Thread G 1 1/2" (DIN 3852-A) PN 40/316L	0 4	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾⁽¹⁹⁾	1 R		Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	0 5	
NEPSI Ex ia IIC T6 ⁽⁵⁾⁽⁸⁾	2 A		Thread G 2" (DIN 3852-A) PN 40/316L	0 6	
NEPSI Ex ia IIC T6 + DIP A20/21 TA T* ⁽¹⁾⁽⁵⁾⁽⁸⁾	2 B		Flange DN 50 PN 40 Form C, DIN 2501/316L	1 0	
NEPSI Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	2 C		Flange DN 80 PN 40 Form C, DIN 2501/316L	1 2	
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* ⁽²⁾⁽⁵⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾	2 D		Flange DN 100 PN 16 Form C, DIN 2501/316L	1 3	
NEPSI Ex d IIC T6 ⁽⁸⁾⁽¹⁰⁾⁽¹⁹⁾	2 E		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	
			Flange 3" 150 lb RF, ASME B16.5/316L	3 3	

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG260	7ML5882-		SITRANS LG260	7ML5882-	
A guided wave radar sensor for level measurement of solids.			A guided wave radar sensor for level measurement of solids.		
Flange 3" 300 lb RF, ASME B16.5/316L	3 4		Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel ⁽⁹⁾⁽¹⁰⁾	S	
Flange 4" 150 lb RF, ASME B16.5/316L	3 5		Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel ⁽⁹⁾⁽¹⁰⁾	T	
Flange 4" 300 lb RF, ASME B16.5/316L	3 6		Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	W	
Flange 6" 150 lb RF, ASME B16.5/316L	3 7		Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	X	
Electronics			Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	Y	
Two-wire 4 ... 20 mA/HART	0		Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	U	
Four-wire Modbus ⁽²⁾⁽⁹⁾⁽¹⁰⁾	1		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
Two-wire 4 ... 20 mA/HART with SIL qualification ⁽⁹⁾	2		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
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ⁽²⁾⁽⁹⁾⁽¹⁰⁾	3		Lengths		
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ⁽²⁾⁽⁹⁾⁽¹⁰⁾	4		<u>Rod ø 16 mm/316L</u>		
PROFIBUS PA ⁽⁹⁾	5		500 mm (19.69 inch)	0	
FOUNDATION Fieldbus ⁽⁹⁾	6		501 ... 1 000 mm (19.72 ... 39.37 inch)	1	
Seal/Process temperature			1 001 ... 2 000 mm (39.41 ... 78.74 inch)	2	
FKM (SHS FPM 70C3 GLT)/-40 ... +80 °C (-40 ... +176 °F) ⁽¹⁶⁾	A		2 001 ... 3 000 mm (78.78 ... 118.11 inch)	3	
FKM (SHS FPM 70C3 GLT)/-40 ... +150 °C (-40 ... +302 °F)	B		3 001 ... 4 000 mm (118.15 ... 157.48 inch)	4	
FFKM (Kalrez 6375)/-20 ... +200 °C (-4 ... +392 °F)	C		4 001 ... 5 000 mm (157.52 ... 196.85 inch)	5	
EPDM (A+P 70.10-02)/-40 ... +80 °C (-40 ... +176 °F) ⁽¹⁶⁾	D		5 001 ... 6 000 mm (196.89 ... 236.22 inch)	6	
EPDM (A+P 70.10-02)/-40 ... +150 °C (-40 ... +392 °F)	E		<u>Cable lengths ø 4 mm/316</u>		
Housing/Protection/Cable			501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 2 E
Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC			1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9	R 2 F
Plastic IP66/IP67 M20 x 1.5/blind stopper ⁽⁹⁾⁽¹⁰⁾	A		5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 2 G
Plastic IP66/IP67 1/2" NPT/blind stopper ⁽⁹⁾⁽¹⁰⁾	B		10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 2 H
Plastic 2-chamber/IP66/IP67/M20 x 1.5/ blind stopper	C		15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 2 J
Plastic 2-chamber/IP66/IP67/ 1/2" NPT/ blind stopper	D		20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 2 K
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ blind stopper ⁽⁹⁾⁽¹⁰⁾	E		25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9	R 2 L
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/ blind stopper ⁽⁹⁾⁽¹⁰⁾	F		30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9	R 2 M
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	G		35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9	R 2 N
Aluminum double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper	H		40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9	R 2 P
Stainless Steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper ⁽⁹⁾⁽¹⁰⁾	J		45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9	R 2 Q
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper ⁽⁹⁾⁽¹⁰⁾	K		50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9	R 2 R
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper ⁽⁹⁾⁽¹⁰⁾	L		55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9	R 2 S
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper ⁽⁹⁾⁽¹⁰⁾	M		<u>Cable lengths ø 6 mm/316L</u>		
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	N		500 mm (19.69 inch)	9	R 4 A
Stainless steel double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper	P		501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 4 B
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland stainless steel ⁽⁹⁾⁽¹⁰⁾	Q		1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9	R 4 C
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	R		5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 4 D

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Order code
SITRANS LG260	7ML5882-		Further designs (mandatory)	
A guided wave radar sensor for level measurement of solids.			Please add "-Z" to Article No. and specify Order code(s).	
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 4 E	Supplementary electronics	
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 4 F	Without	A00
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 4 G	Additional current output 4 ... 20 mA ¹⁰⁾	A01
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 4 H	Rod mounted	
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 4 J	Without Rod, applicable for coax or cable probe types only	C00
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 4 K	Mounted	C01
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 4 L	Not mounted	C02
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 4 M	Indicating/adjustment module	
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 4 N	Without	E00
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9 R 4 P	Mounted	E01
Cable lengths ø 6 mm or ø 11 mm/PA coated			Laterally mounted	E02
501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 6 A	Language of display	
1 001 ... 5 000 mm (39.41 ... 196.85 inch)		9 R 6 B	German	L00
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 6 C	English	L01
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 6 D	French	L02
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 6 E	Dutch	L03
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 6 F	Italian	L04
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 6 G	Spanish	L05
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 6 H	Portuguese	L06
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 6 J	Russian	L07
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 6 K	Chinese	L08
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 6 L	Japanese	L09
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 6 M	Operating instructions	
55 001 ... 65 000 mm (2 165.39 ... 2 559.06 inch)		9 R 6 N	German	M00
			English	M01
			French	M02
			Spanish	M03
Selection and Ordering data	Article No.	Ord. Code	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). 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) 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

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code
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
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, GWR sensor Display Module	Article No. 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 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-...
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
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.
- 19) Available only with Single chamber, Aluminum and Stainless steel (precision casting) Housing/Protection/Cable options.

Note: Please consult manual for further details.

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG270	7ML5883-		SITRANS LG270	7ML5883-	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications			A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Approvals					
General purpose (CSA, FM, CE) ⁽³²⁾	0 A		CSA (NI) Class I, II, III Div. 2, Groups A, B, C, D, F, G + Ship approval ⁽²⁾⁽³⁾⁽⁶⁾⁽⁷⁾⁽⁹⁾	7 K	
Shipping approval ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	0 B		CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + Ship approval ⁽²⁾⁽⁶⁾⁽⁹⁾⁽¹²⁾	7 L	
Overfill protection (WHG; VLAREM) ⁽²⁾⁽³⁾	0 C		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	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁽²⁾⁽³²⁾	0 E		NEPSI Ex ia IIC T6 ⁽²⁾⁽³⁾	2 A	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁽²⁾⁽³⁾	0 F		NEPSI Ex ia IIC T6 + DIP A20/21 TA T* ⁽²⁾⁽⁵⁾⁽⁷⁾	2 B	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	0 G		NERSI Ex d ia IIC T6 ⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	2 C	
ATEX II 1G, 1/2G, 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ⁽²⁾⁽⁷⁾	0 H		NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* ⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	2 D	
ATEX II 1/2G, 2G Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾⁽³²⁾	0 J		NEPSI Ex d IIC T6 ⁽²⁾⁽³⁾⁽⁶⁾⁽¹¹⁾	2 E	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ⁽¹⁾⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	0 L		NEPSI Ex d IIC T6 + DIP A20/21 TA T* ⁽²⁾⁽³⁾⁽⁶⁾⁽¹¹⁾	2 F	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	0 M		NEPSI DIP A20/21 TA T* ⁽²⁾⁽³⁾⁽⁷⁾	2 G	
ATEX II 1/2G, 2G Ex d IIC T6 ⁽⁶⁾⁽⁷⁾⁽³²⁾	0 N		INMETRO Ex ia IIC T6 ... T1 ⁽²⁾⁽³²⁾	3 A	
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		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ⁽²⁾⁽⁶⁾⁽⁷⁾	3 B	
ATEX II 1/2G, 2G Ex d IIC + ship approval ⁽¹⁾⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	0 Q		INMETRO Ex d ia IIC T6 ... T1 ⁽²⁾⁽⁵⁾⁽⁸⁾⁽³²⁾	3 C	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ⁽²⁾⁽⁶⁾⁽⁷⁾	0 R		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	
ATEX II 1D, 1/2D, 2D IP6x T ⁽²⁾⁽⁷⁾	0 S		INMETRO Ex d IIC T6 ... T1 ⁽²⁾⁽⁶⁾⁽¹¹⁾	3 E	
IEC Ex ia IIC T6 ⁽²⁾⁽³²⁾	0 T		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁽²⁾⁽⁶⁾⁽¹¹⁾⁽³²⁾	3 F	
IEC Ex ia IIC T6 + IEC IP6x T tD ⁽²⁾⁽⁷⁾	0 U		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ⁽²⁾⁽⁶⁾⁽⁷⁾	3 G	
IEC Ex d ia IIC T6 ⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾⁽³²⁾	1 A		KOSHA Ex d IIC T6 ... T1 – KE ⁽²⁾⁽³⁾⁽⁶⁾⁽¹¹⁾	4 A	
IEC Ex d ia IIC T6 + IEC IP6x T tD ⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	1 B		Korea KC ex free area ⁽²⁾⁽³²⁾	6 A	
IEC Ex d IIC T6 ⁽³⁾⁽⁶⁾⁽⁷⁾	1 C		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ⁽²⁾⁽³⁾⁽¹³⁾	5 A	
IEC Ex d IIC T6 + IEC IP6x T tD ⁽²⁾⁽³⁾⁽⁶⁾⁽⁷⁾	1 D		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽²⁾⁽³⁾⁽⁷⁾	5 B	
IEC Ex db IIC T6 ... T1 Ga/Gb, Gb + Ship approval ⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾⁽⁹⁾	7 C		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	5 C	
IEC Ex ia IIC T6 ... T1 Ga, Ga/Gb, Gb + Ship approval ⁽²⁾⁽⁹⁾⁽¹²⁾	7 D		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	5 D	
IEC Ex d ia IIC T6 ... T1 Ga/Gb, Gb + Ship approval ⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾⁽⁹⁾	7 E		GOST-R/EAC 1 Ex d IIC T1 ... T6 X ⁽²⁾⁽³⁾⁽⁶⁾⁽¹¹⁾	5 E	
FM (NI) Class I, Div. 2, Groups A, B, C, D ⁽²⁾⁽⁵⁾⁽¹⁰⁾⁽³²⁾	1 F		GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ⁽²⁾⁽³⁾⁽⁶⁾⁽¹¹⁾	5 F	
FM (NI) Class I, Div. 2, Groups A, B, C, D + ship approval ⁽¹⁾⁽²⁾⁽³⁾⁽⁵⁾⁽⁸⁾	1 G		GOST-R/EAC Ex t IIIC T ... IP66 ⁽²⁾⁽³⁾⁽¹⁴⁾	5 G	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁽²⁾⁽⁵⁾⁽³²⁾	1 H		Note: Version/Material, Process fitting/ Material, and Length options are available only with options of corresponding type.		
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		Version/Material		
FM (XP-AIS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾⁽³²⁾	1 K		Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316 ⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾	A	
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		Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ⁽¹⁵⁾⁽¹⁷⁾⁽¹⁸⁾	B	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁽⁶⁾⁽¹¹⁾⁽³²⁾	1 M		Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾	C	
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		Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ⁽¹⁵⁾⁽¹⁷⁾⁽¹⁸⁾	D	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽³⁾	1 P		Probe exchangeable rod ø 16 mm (0.63 inch)/316L ⁽¹⁶⁾⁽¹⁹⁾⁽²⁰⁾	E	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽²⁾⁽³⁾⁽⁵⁾⁽⁶⁾⁽⁸⁾	1 Q		Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ⁽¹⁶⁾⁽¹⁷⁾⁽²⁰⁾	F	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽³⁾⁽⁵⁾⁽⁶⁾⁽¹¹⁾⁽¹⁹⁾	1 R		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	

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code
SITRANS LG270	7ML5883-	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
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	
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	

Selection and Ordering data	Article No.	Ord. Code
SITRANS LG270	7ML5883-	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
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	

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG270	7ML5883-		SITRANS LG270	7ML5883-	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications			A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 4		Housing/Protection/Cable		
Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 5		Note: for installation of remote display, 7ML5840, with LG two chamber housing options, contact PVC		
Flange 3" 600 lb RJF for R31, ASME B16.5/ Alloy C22 (2.4602) solid	8 6		Plastic IP66/IP67 M20 x 1.5/blind stopper	A	
Flange 2" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 A	Plastic IP66/IP67 1/2" NPT/blind stopper	B	
Flange 3" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 B	Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ blind stopper	C	
Flange 3" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 C	Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	D	
Flange 4" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 D	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	E	
Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 E	Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F	
Flange 4" 900 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 F	Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper	L	
Flange 4" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) massiv	9 0	L 1 G	Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper	M	
Flange 4" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 H	Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper	N	
Flange 4" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 J	Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper	P	
Flange 8" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 K	Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	Q	
Flange 3 1/2" 600 lb Fisher type 249B and 259B/ Alloy C22 (2.4602) solid	9 0	L 1 L	Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	R	
Flange 2 1/2" 300 lb RF, ASME B16.5/316/316L	9 0	L 2 A	Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland stainless steel	S	
Flange 2 1/2" 600 lb RF, ASME B16.5/316/316L	9 0	L 2 B	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	T	
Flange DN 50 PN 40 Form D, EN 1092-1/316/ 316L ²⁴⁾	9 0	L 2 C	Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	U	
Flange 2 1/2" 1 500 lb RF, ASME B16.5/316/316L	9 0	L 2 D	Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stain- less steel	V	
Thread G 1" (DIN 3852-A) PN 100/316L	9 0	L 3 C	Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	W	
Thread 1" NPT, ASME B1.20.1/PN 100/316L	9 0	L 3 D	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	X	
Thread G 1 1/2" (DIN 3852-A) PN 100/316L	9 0	L 3 E	Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	Y	
Thread 1 1/2" NPT, ASME B1.20.1/PN 100/316L	9 0	L 3 F	Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	J	
Thread 2" NPT, ASME B1.20.1/PN 100/316L	9 0	L 3 G	Remote stainless steel single chamber hous- ing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug ⁶⁾	Z	Q 2 A
Thread G 3/4" PN100, DIN 3852-A/316L ²³⁾³¹⁾	9 0	L 3 H	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
Thread 3/4" NPT PN100, ASME B1.20.1/ 316L ²³⁾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				

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG270	7ML5883-		SITRANS LG270	7ML5883-	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications			A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
Lengths			<u>Cable lengths ø 4 mm/ C22</u>		
<u>Rod ø 16 mm/316L</u>			501 ... 1 000 m	9	R 4 A
300 mm (11.81 inch) ²⁵⁾	0		(19.72 ... 39.37 inch)		
500 mm (19.69 inch) ²⁵⁾	1		1 000 ... 5 000 mm	9	R 4 B
501 ... 1 000 mm (19.72 ... 39.37 inch) ²⁵⁾	2		(39.37 ... 196.85 inch)		
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾	3		5 001 ... 10 000 mm	9	R 4 C
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾	4		(196.89 ... 393.70 inch)		
3 001 ... 4 000 mm	5		10 001 ... 15 000 mm	9	R 4 D
(118.15 ... 157.48 inch) ²⁵⁾			(393.74 ... 590.55 inch)		
4 001 ... 5 000 mm	6		15 001 ... 20 000 mm	9	R 4 E
(157.52 ... 196.85 inch) ²⁵⁾			(590.59 ... 787.40 inch)		
5 001 ... 6 000 mm	7		20 001 ... 25 000 mm	9	R 4 F
(196.89 ... 236.22 inch) ²⁵⁾			(787.44 ... 984.25 inch)		
<u>Rod ø 16 mm/C22</u>			25 001 ... 30 000 mm	9	R 4 G
501 ... 1 000 mm (19.72 ... 39.37 inch) ²⁵⁾	9	R 1 A	(984.29 ... 1 181.10 inch)		
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾	9	R 1 B	30 001 ... 35 000 mm	9	R 4 H
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾	9	R 1 C	(1 181.14 ... 1 377.95 inch)		
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁵⁾	9	R 1 D	35 001 ... 40 000 mm	9	R 4 J
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁵⁾	9	R 1 E	(1 377.99 ... 1 574.80 inch)		
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁵⁾	9	R 1 F	40 001 ... 45 000 mm	9	R 4 K
<u>Rod ø 8 mm/316L</u>			(1 574.84 ... 1 771.65 inch)		
300 ... 1 000 mm (11.81 ... 39.37 inch)	9	R 1 H	45 001 ... 50 000 mm	9	R 4 L
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9	R 1 J	(1 771.69 ... 1 968.50 inch)		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	9	R 1 K	50 001 ... 55 000 mm	9	R 4 M
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	9	R 1 L	(1 968.54 ... 2 165.35 inch)		
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9	R 1 M	55 001 ... 60 000 mm	9	R 4 N
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	9	R 1 N	(2 165.39 ... 2 362.20 inch)		
<u>Cable lengths ø 2 or 4 mm/316L</u>			<u>Coax ø 42.2 mm/316L</u>		
501 ... 1 000 mm	9	R 2 E	300 ... 1 000 mm	9	R 3 G
(19.72 ... 39.37 inch)			(11.81 ... 39.37 inch) ²⁵⁾		
1 000 ... 5 000 mm	9	R 2 F	1 001 ... 2 000 mm	9	R 3 H
(39.37 ... 196.85 inch)			(39.41 ... 78.74 inch) ²⁵⁾²⁶⁾		
5 001 ... 10 000 mm	9	R 2 G	2 001 ... 3 000 mm	9	R 3 J
(196.89 ... 393.70 inch)			(78.78 ... 118.11 inch) ²⁵⁾		
10 001 ... 15 000 mm	9	R 2 H	3 001 ... 4 000 mm	9	R 3 K
(393.74 ... 590.55 inch)			(118.15 ... 157.48 inch) ²⁵⁾		
15 001 ... 20 000 mm	9	R 2 J	4 001 ... 5 000 mm	9	R 3 L
(590.59 ... 787.40 inch)			(157.52 ... 196.85 inch) ²⁵⁾		
20 001 ... 25 000 mm	9	R 2 K	5 001 ... 6 000 mm	9	R 3 M
(787.44 ... 984.25 inch)			(196.89 ... 236.22 inch) ²⁵⁾		
25 001 ... 30 000 mm	9	R 2 L	<u>Coax ø 42.2 mm/C22</u>		
(984.29 ... 1 181.10 inch)			300 ... 1 000 mm (11.81 ... 39.37 inch) ²⁵⁾	9	R 3 Q
30 001 ... 35 000 mm	9	R 2 M	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²⁵⁾²⁶⁾	9	R 3 R
(1 181.14 ... 1 377.95 inch)			2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²⁵⁾	9	R 3 S
35 001 ... 40 000 mm	9	R 2 N	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²⁵⁾	9	R 3 T
(1 377.99 ... 1 574.80 inch)			4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²⁵⁾	9	R 3 U
40 001 ... 45 000 mm	9	R 2 P	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²⁵⁾	9	R 3 V
(1 574.84 ... 1 771.65 inch)			<u>Coax ø 21.3 mm/316L</u>		
45 001 ... 50 000 mm	9	R 2 Q	300 ... 1 000 mm	9	R 5 A
(1 771.69 ... 1 968.50 inch)			(11.81 ... 39.37 inch)		
50 001 ... 55 000 mm	9	R 2 R	1 001 ... 2 000 mm	9	R 5 B
(1 968.54 ... 2 165.35 inch)			(39.41 ... 78.74 inch)		
55 001 ... 60 000 mm	9	R 2 S	2 001 ... 3 000 mm	9	R 5 C
(2 165.39 ... 2 362.20 inch)			(78.78 ... 118.11 inch)		
			3 001 ... 4 000 mm	9	R 5 D
			(118.15 ... 157.48 inch)		
			4 001 ... 5 000 mm	9	R 5 E
			(157.52 ... 196.85 inch)		
			5 001 ... 6 000 mm	9	R 5 F
			(196.89 ... 236.22 inch)		

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code	Selection and Ordering data	Order code
Further designs (mandatory)		Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).		Please add "-Z" to Article No. and specify Order code(s).	
Supplementary electronics		Enter the total insertion length in plain text description	Y01
Without	A00	Y02 rigid part is 100 mm, only applicable for cable versions	Y02
Additional current output 4 ... 20 mA ⁶⁾	A01	Reference probe G length of reference distance = 260 mm/10.24 inches (note blanking 450 mm required with min. probe 1 000 mm)	Y05
Dimensions centering weight (diameter/height)		Reference probe G length of reference distance = 500 mm/19.69 inches (note blanking 690 mm required with min. probe 1 250 mm)	Y06
Without	B00	Reference probe G length of reference distance = 750 mm/29.53 inches (note blanking 940 mm required with min. probe 1 500 mm)	Y07
ø 40/30 mm	B01	Remote electronic cable lengths: 2 m (6.6 ft). Only available with Housing options Q2A and Q2B	Y10
ø 45/30 mm (for 2 inch tubes)	B02	Remote electronic cable lengths: 5 m (16.4 ft). Only available with Housing options Q2A and Q2B	Y11
ø 75/30 mm (for 3 inch tubes)	B03	Remote electronic cable lengths: 10 m (32.8 ft). Only available with Housing options Q2A and Q2B	Y12
ø 95/30 mm (for 4 inch tubes)	B04	Customer specific adjustment (unit value, 100 % distance from seal, 0 % distance from seal)	Y20
ø 40 mm/30 mm	B05	Cleaning included certificate: oil, grease and silicone free	W01
ø 1.57 inch/1.18 inch (for 2 inch Schedule 160)		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
ø 45 mm/30 mm (for 2 inch tubes)	B06	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
ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80)		Material Inspection certificate 3.1 of EN 10204	C05
ø 75 mm/30 mm (for 3 inch tubes)	B07	3.1-Inspection Certificate for instrument (EN 10204) ²⁷⁾	C12
ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40)		Inspection certificate 3.1 (EN 10204, NACE MR 0175) - material ²⁷⁾	D07
ø 95 mm/30 mm (for 4 inch tubes)	B08	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.	
ø 3.74 inch/1.18 inch (for 4 inch Schedule 80)		3.1-Inspection Certificate for instrument with test data (EN 10204) ²⁷⁾	C25
Rod mounted		2.2-Factory certificate for material (EN 10204) ²⁷⁾	C15
Without Rod, applicable for coax or cable probe types only	C00	Quality and test plan ²⁷⁾	C26
Mounted	C01	Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ²⁷⁾	C13
Not mounted	C02	X-ray test + 3.1 certificate/instrument ²⁷⁾	C14
Indicating/adjustment module		Positive material identification test + 3.1 certificate/ instrument ²⁷⁾	C16
Without	E00	Roughness test + 3.1 certificate/instrument ²⁷⁾	C18
Mounted	E01	Pressure test + 3.1 certificate/instrument ²⁷⁾	C31
Laterally mounted	E02	Helium leak test + 3.1 certificate/instrument ²⁷⁾	C32
Language of display		Pressure test according to Norsok + 3.1 certificate/ instrument ²⁷⁾	C61
German	L00	5 point calibration certificate (min. length 500 mm) ²⁷⁾	C62
English	L01	Pressure test (acc. to ASME B31.1), incl. 3.1 Inspection certificate ²⁸⁾	C63
French	L02	Certificate: Approval for steam boiler according to EN 12952-11, EN 12953-9 ²⁹⁾	C70
Dutch	L03		
Italian	L04		
Spanish	L05		
Portuguese	L06		
Russian	L07		
Chinese	L08		
Japanese	L09		
Operating instructions			
German	M00		
English	M01		
French	M02		
Spanish	M03		

Level Measurement

Continuous level measurement Guided wave radar transmitters

SITRANS LG series

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, GWR 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 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-...
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
For applicable back up point level switch - see point level measurement section	

²⁸⁾ Available only with ASME Process fitting/Material options.

²⁹⁾ Available only 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.

Note: Please consult manual for further details.

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) Available only with 316L probes. NACE is not available with coated, plated, or hygienic connections.

- 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.

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.
SITRANS LG Replacement Probes	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 Type⁽³⁾	
Exchangeable cable ø 2 mm with gravity weight/316 ⁽¹⁾⁽¹¹⁾	AA
Exchangeable cable ø 2 mm center weight/316 ⁽²⁾⁽¹¹⁾	AC
Exchangeable cable ø 4 mm without weight/316 ⁽¹⁾⁽¹¹⁾	AD
Exchangeable cable ø 4 mm with gravity weight/316 ⁽¹⁾⁽¹¹⁾	AE
Exchangeable cable ø 4 mm with center weight/316 ⁽²⁾⁽¹¹⁾	AG
Exchangeable cable ø 6 mm with gravity weight/316 ⁽¹⁾⁽⁸⁾⁽¹¹⁾	AH
Exchangeable rod ø 8 mm/316L ⁽¹⁾	AP
Exchangeable rod ø 8 mm/1.4435 (acc. to Basle Standard) ⁽¹⁾	AQ
Exchangeable rod ø 12 mm/316L ⁽¹⁾	AU
Exchangeable rod ø 16 mm/316L ⁽¹⁾	AW
Exchangeable coated cable ø4 mm with uncoated centering weight / PFA and 316 ⁽¹⁾⁽¹²⁾	BA
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 than 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

Selection and Ordering data	Article No.
SITRANS LG Replacement Probes	7ML5841-
	0
Lengths	
Rod ø 8 mm	
300 ... 1 000 mm (11.81 ... 39.37 inch)	AA
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	AB
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	AC
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	AD
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	AE
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	AF
Rod ø 12 mm	
300 ... 1 000 mm (11.81 ... 39.37 inch)	AG
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	AH
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	AJ
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	AK
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	AL
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	AM
Rod ø 16 mm	
300 ... 1 000 mm (11.81 ... 39.37 inch)	AN
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	AP
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	AQ
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	AR
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	AS
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	AT
Cable Lengths ø 2 mm and 4 mm/316	
501 ... 1 000 mm (19.72 ... 39.37 inch)	AU
1 001 ... 5 000 mm (39.41 ... 196.85 inch)	AV
5 000 ... 10 000 mm (196.85 ... 393.70 inch)	AW
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	AX
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	AY
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	BA
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	BB
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	BC
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	BD
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	BE
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	BF
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	BG
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	BH
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	BJ
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	BK
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)	BL

Level Measurement

Continuous level measurement

Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.
SITRANS LG Replacement Probes	7ML5841-
	 0
<u>Cable Lengths ø 6 mm/316</u>	
501 ... 1 000 mm (19.72 ... 39.37 inch)	BM
1 001 ... 5 000 mm (39.41 ... 196.85 inch)	BN
5 000 ... 10 000 mm (196.89 ... 393.70 inch)	BP
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	BQ
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	BR
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	BS
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	BT
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	BU
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	BV
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	BW
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	BX
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	BY
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	CA
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	CB
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	CC
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)	CD
<u>Cable Lengths ø 4 mm/316</u>	
300 ... 1 000 mm (12 ... 39.37 inch)	DA
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	DB
2 001 ... 5 000 mm (78.77 ... 196.85 inch)	DC
5 001 ... 10 000 mm (196.89 ... 393.70 inch)	DD
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	DE
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	DF
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	DG
25 001 ... 32 000 mm (984.29 ... 1 259.84 inch)	DH

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
7) Available only with Dimension centering weight option 0.	
8) Available only with Dimension centering weight options 1 ... 8.	
9) All Probe type options are only available with corresponding Length options.	
10) Not available with Probe type options AH, AQ, and AW.	
11) Available only with Process fitting options 2 and 3.	
12) Not available with Probe type options AQ and AW.	
13) Available only with Probe type options AE, AH, and AW.	
14) Not available with Process fitting option 2.	
15) Available only with Probe type options AA, AC, AE, AG, and AW.	
16) Available only with Process fitting options 0 and 3.	
17) Not available with certificate options 1 and 2.	
18) Available only with Dimension centering weight options 1 ... 4.	

Selection and Ordering data	Article No.
SITRANS LG Spacers	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⁾	AA
Rod ø 8 mm including fastening/ PEEK can be shortened ⁵⁾	AB
Rod ø 10 mm/ PFA ⁴⁾	AC
Rod ø 12 mm including fastening/ PEEK can be shortened ⁵⁾	AD
Rod ø 16 mm, cable with gravity weight, including fastening/ PEEK can be shortened ⁵⁾⁷⁾	AE
Cable ø 2 mm including fastening/ PEEK and 316L	AF
Rod ø 16 mm including fastening/ 1.4568 (AISI 631) flexible ⁸⁾	AG
Rod ø 8 mm including fastening/ PTFE can be shortened ⁵⁾	AH
Rod ø 12 mm including fastening/ 1.4568 (AISI 631) flexible ⁶⁾	AG
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.

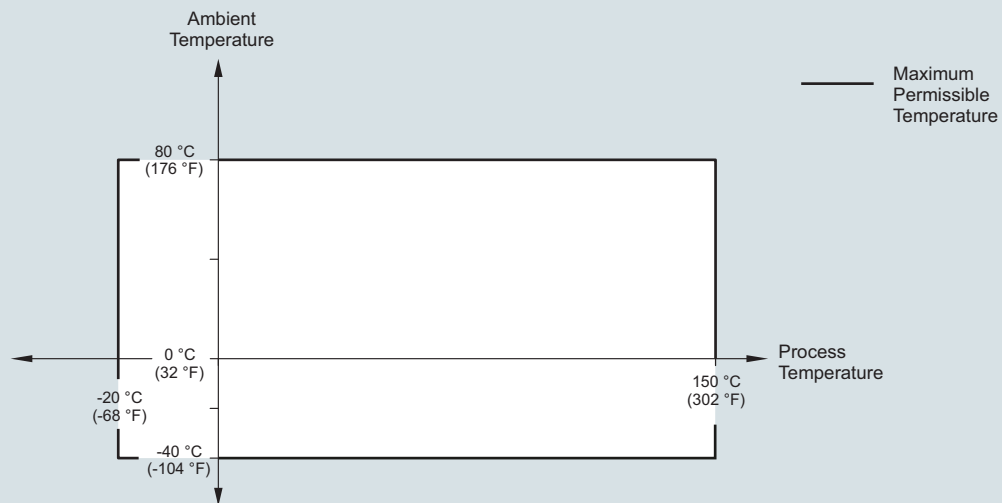
Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

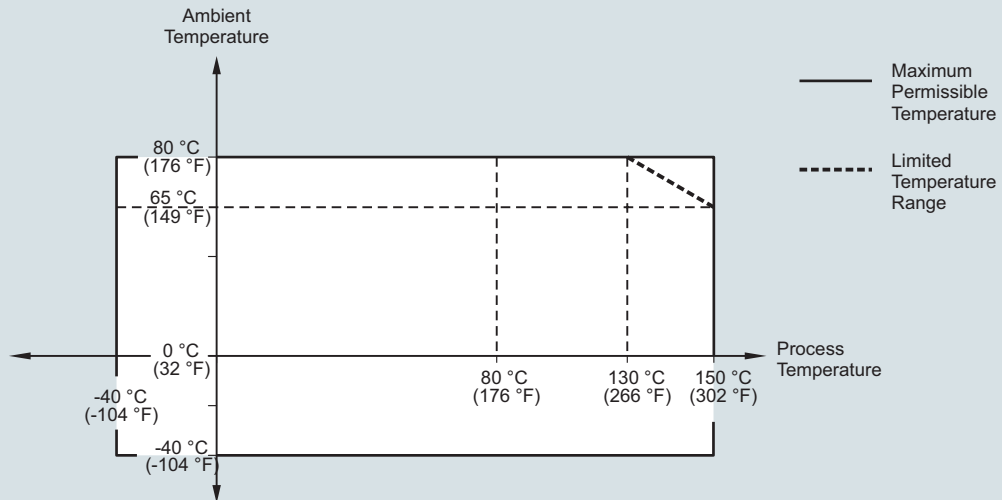
Characteristic curves

SITRANS LG240, Ambient temperature/process temperature, standard version

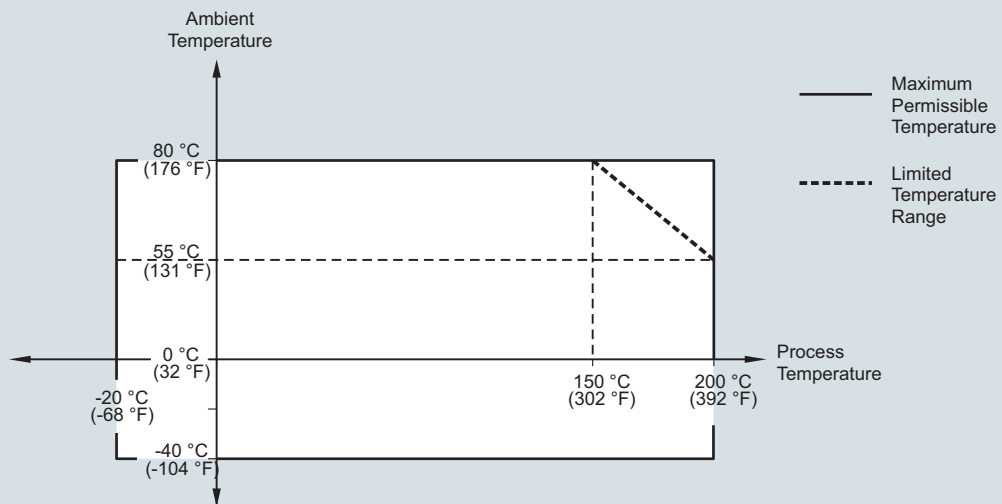


SITRANS LG240, ambient temperature/process temperature curve

SITRANS LG250, Ambient temperature/process temperature, standard version



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



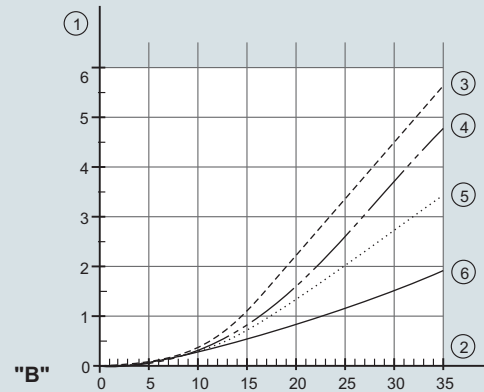
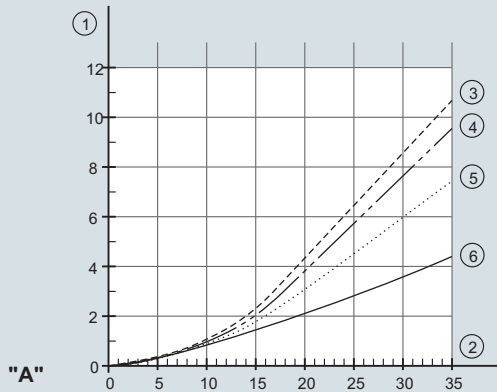
SITRANS LG250, ambient temperature/process temperature curve

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

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



A. Cereals

B. Plastic granules

1. Tensile force in kN (the determined value must be multiplied with safety factor 2)

2. Cable length in m

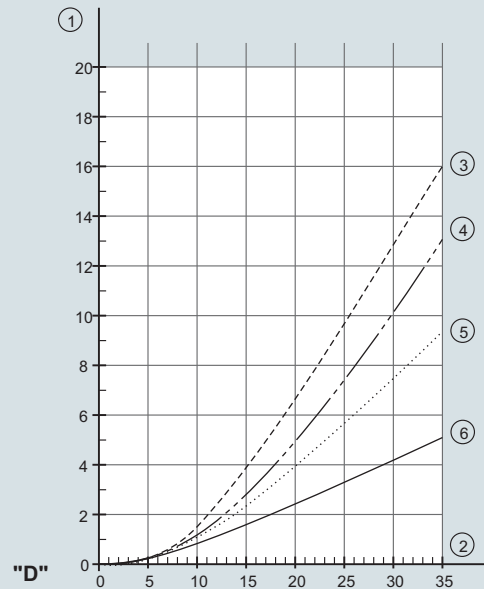
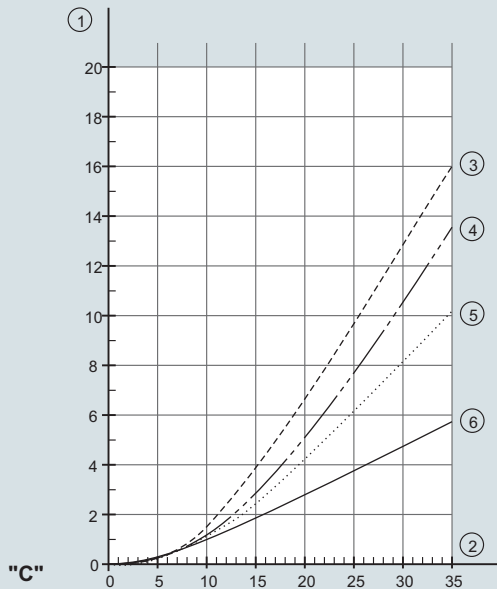
3. Vessel diameter 12 m (39.37 ft)

4. Vessel diameter 9 m (29.53 ft)

5. Vessel diameter 6 m (19.69 ft)

6. Vessel diameter 3 m (9.843 ft)

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



C. Sand

D. Cement

1. Tensile force in kN (the determined value must be multiplied with safety factor 2)

2. Cable length in m

3. Vessel diameter 12 m (39.37 ft)

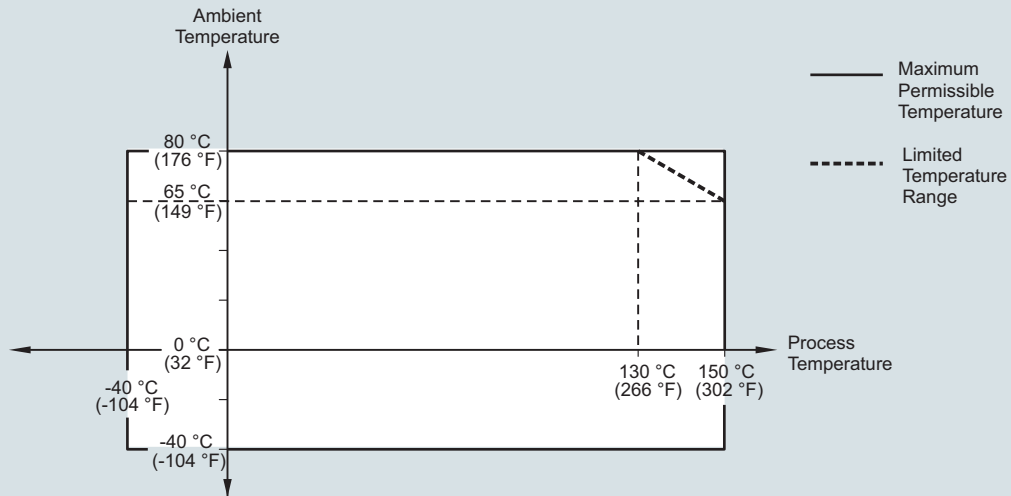
4. Vessel diameter 9 m (29.53 ft)

5. Vessel diameter 6 m (19.69 ft)

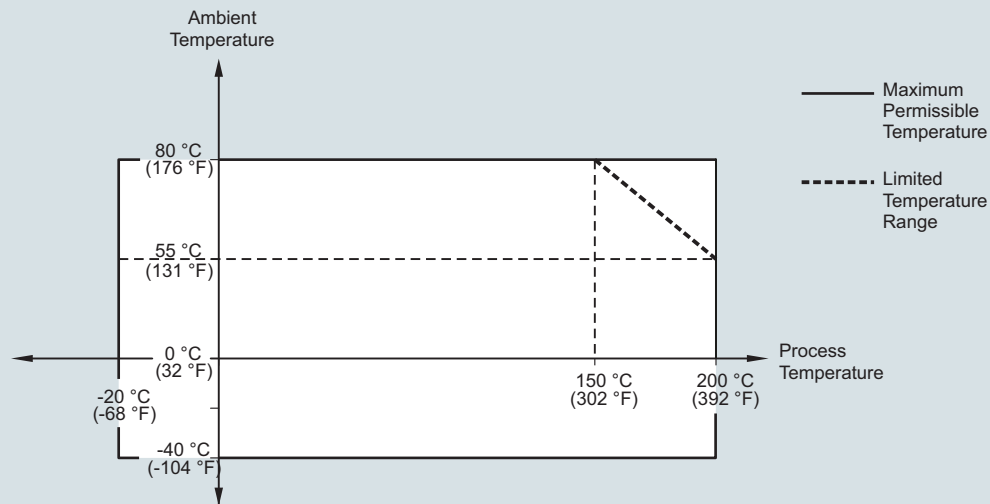
6. Vessel diameter 3 m (9.843 ft)

SITRANS LG260, maximum tensile load curves

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)



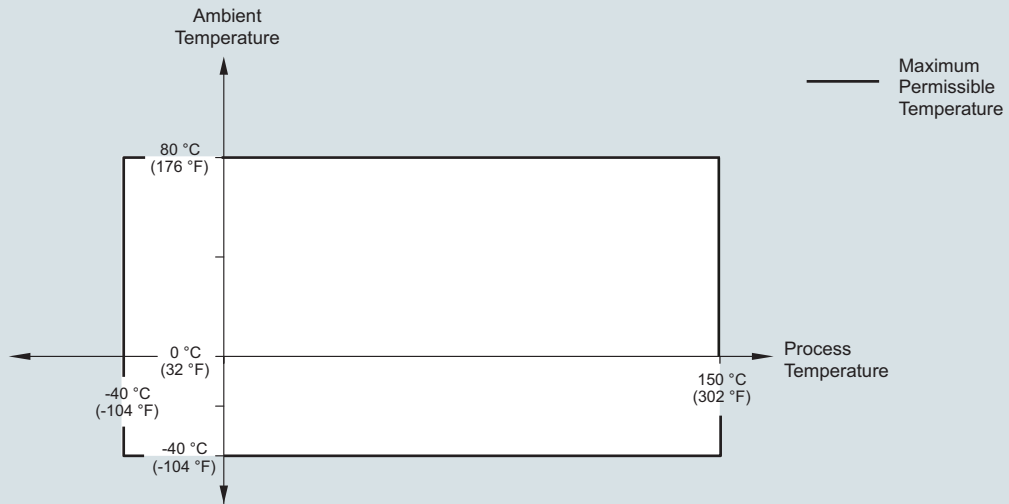
SITRANS LG260, ambient temperature/process temperature curves

Level Measurement

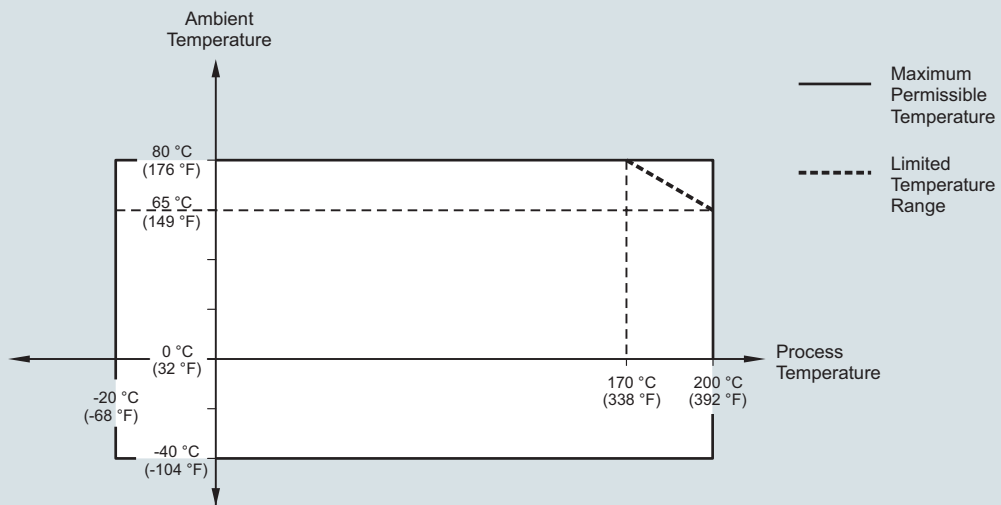
Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

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)

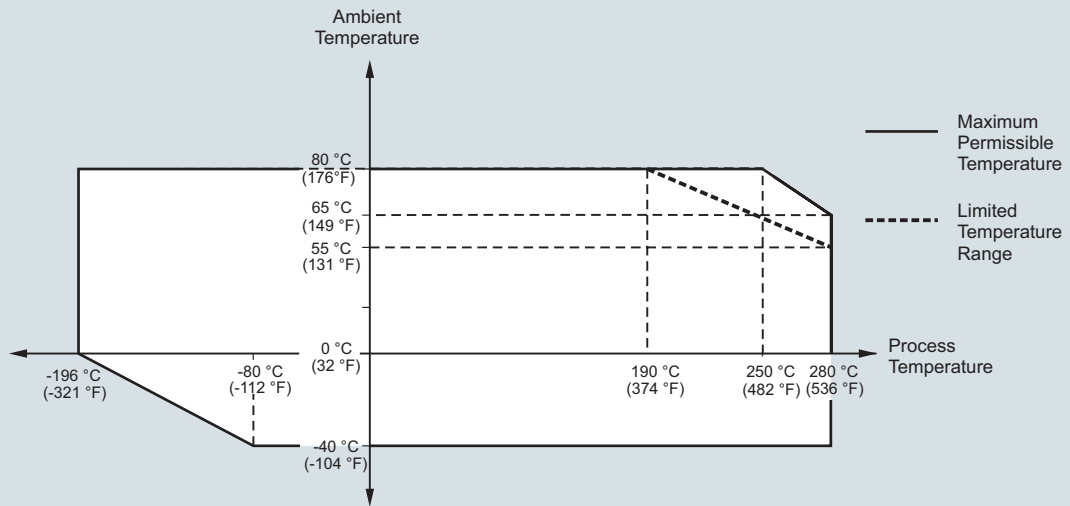


SITRANS LG260, Ambient temperature/process temperature, temperature adapter version
Cable version with $\varnothing$ 6 mm (0.236 inch)
Cable version, PA coated with $\varnothing$ 11 mm (0.433 inch)

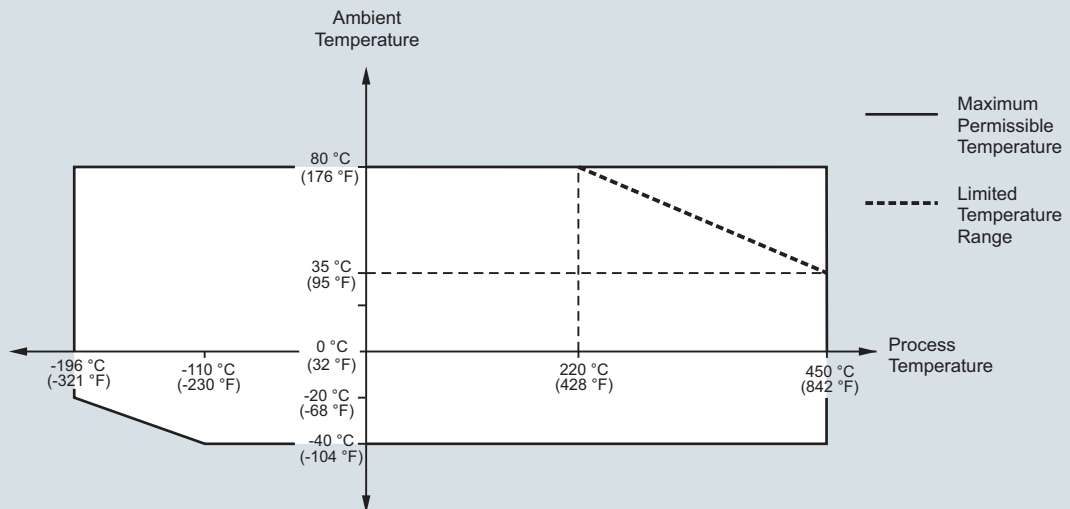


SITRANS LG260, ambient temperature/process temperature curves

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)



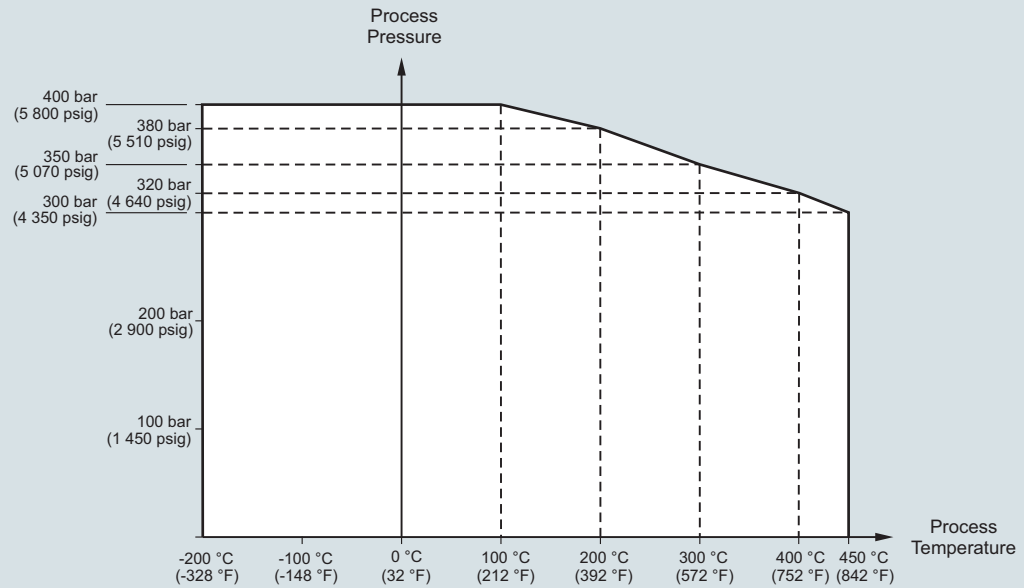
SITRANS LG270, ambient temperature/process temperature curves

Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

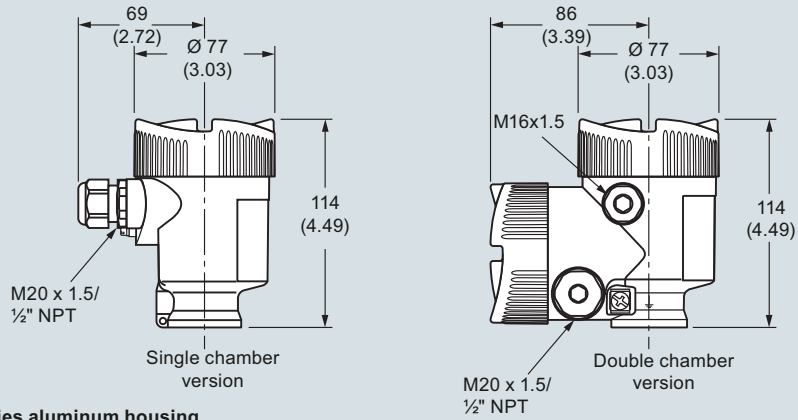
SITRANS LG270, Process pressure/process temperature (-196 ... +450 °C/-321 ... +842 °F version)



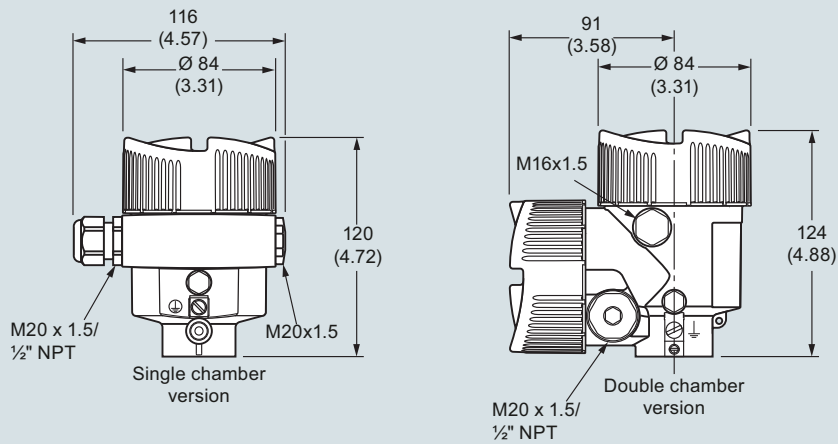
SITRANS LG270, process pressure/process temperature curve

Dimensional drawings

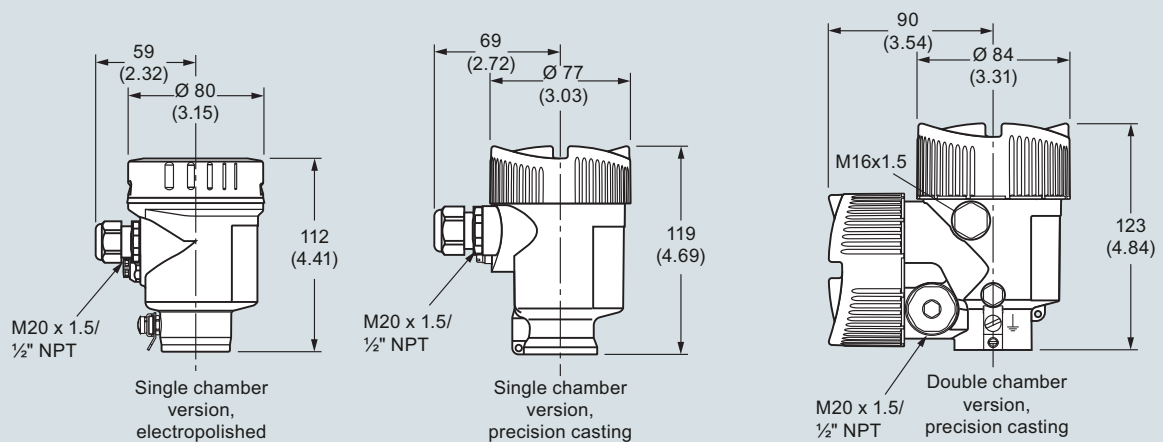
SITRANS LG Series plastic housing



SITRANS LG Series aluminum housing



SITRANS LG Series stainless steel housing



Note: For integrated display and adjustment module the housing is 9 (0.35) higher for all housing options

SITRANS LG series, dimensions in mm (inch)

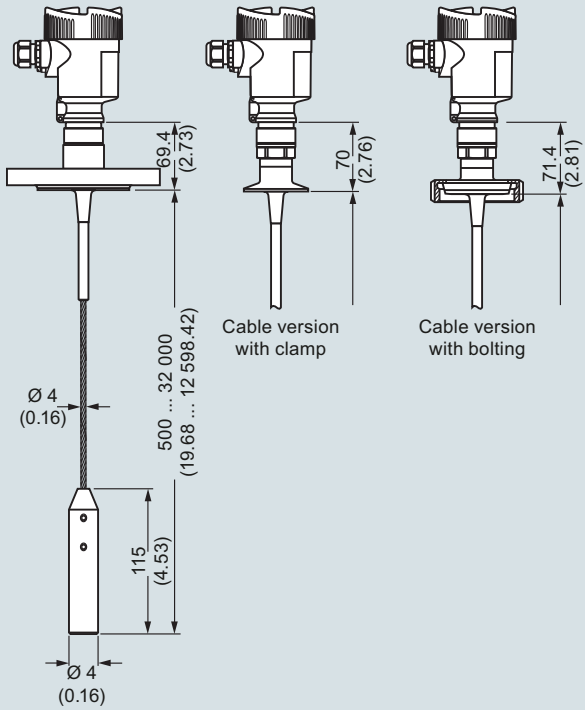
Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

SITRANS LG240

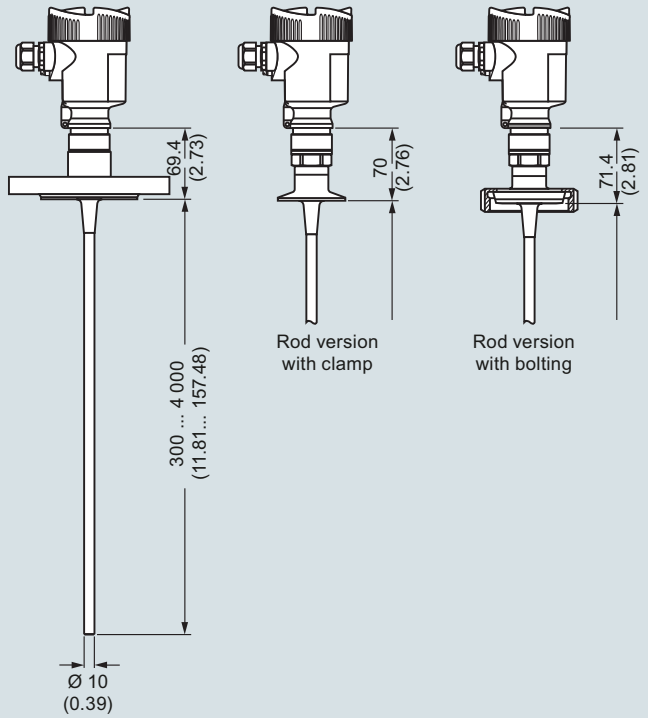
Cable version Ø 4 (0.157), PFA coated



Cable version
with clamp

Cable version
with bolting

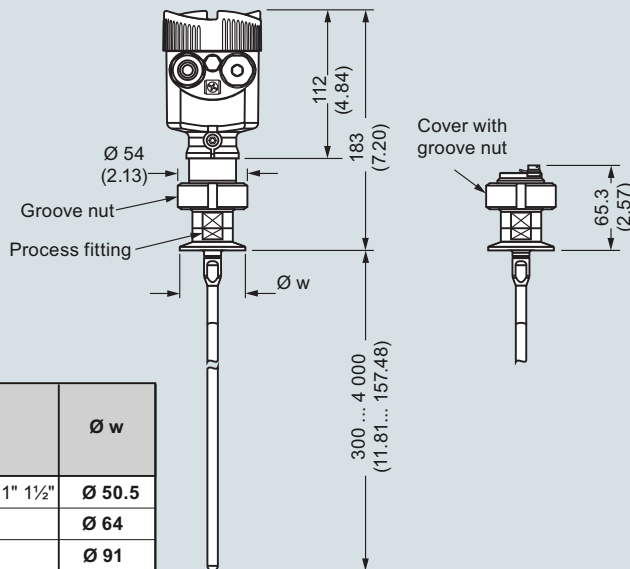
Rod version Ø 10 (0.394), PFA coated



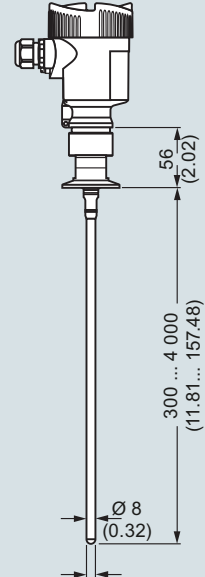
Rod version
with clamp

Rod version
with bolting

Autoclaved version

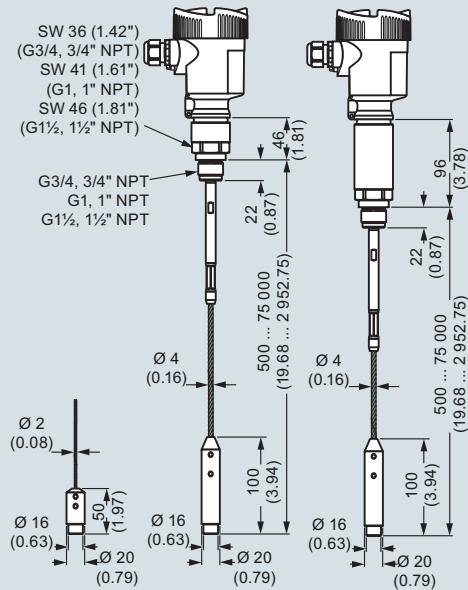
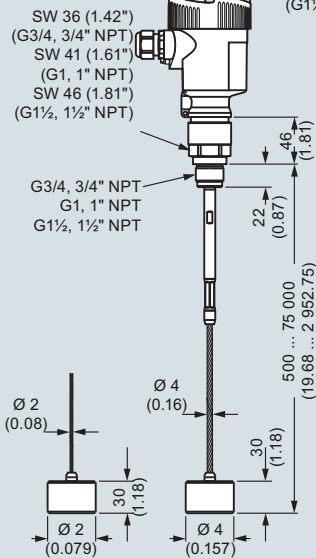
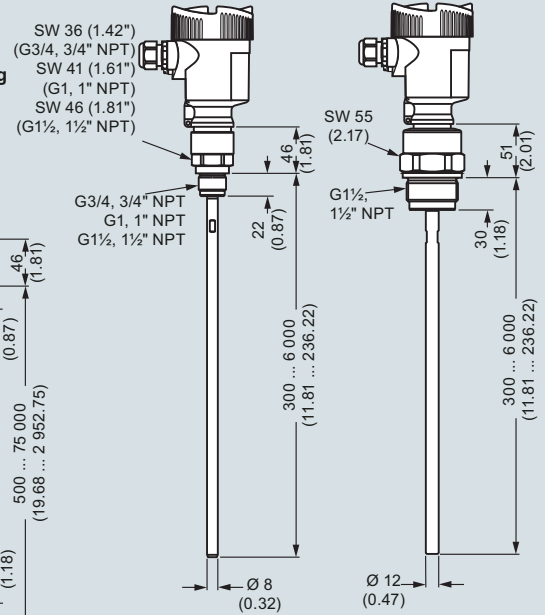


Rod version Ø 8 (0.315), polished



	Ø w
DIN DN 25 DN 32 DN 40/ 1" 1/2"	Ø 50.5
DIN DN 50/ 2"	Ø 64
DIN DN 65/ 3"	Ø 91

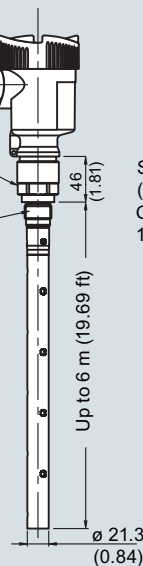
SITRANS LG240, dimensions in mm (inch)

SITRANS LG250**Cable version with gravity weight****Cable version with centering weight****Rod version**

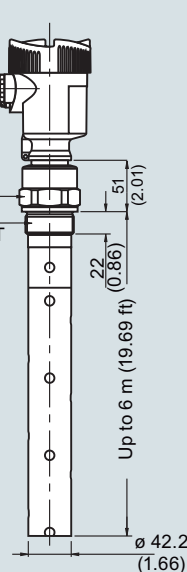
SITRANS LG250, dimensions in mm (inch)

SITRANS LG250, coax version**Coaxial version
ø 21.3 (0.839)**

SW 36 (1.42)
(G¾, ¾" NPT)
SW 41 (1.61)
(G1, 1" NPT)
SW 46 (1.81)
(G1½, 1½" NPT)
G¾, ¾" NPT,
G1, 1" NPT,
G1½, 1½" NPT

**Coaxial version
ø 42.2 (1.661)**

SW 55 (2.17)
G1½,
1½" NPT



SITRANS LG250, dimensions in mm (inch)

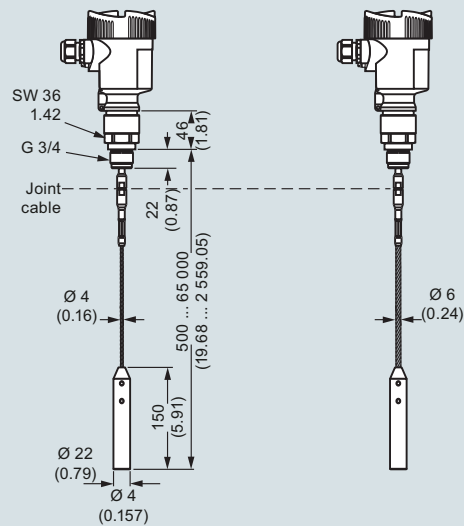
Level Measurement

Continuous level measurement
Guided wave radar transmitters

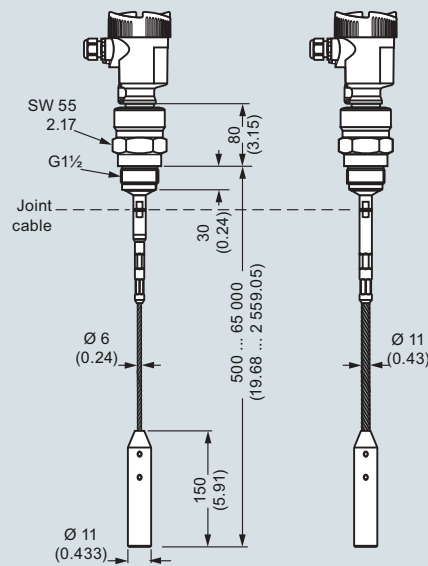
SITRANS LG series

SITRANS LG260

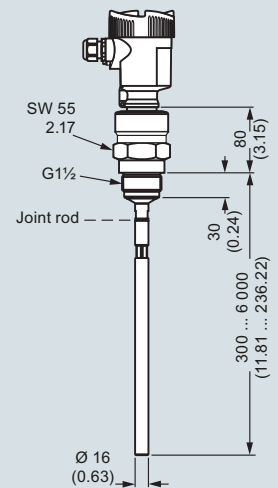
Cable version Ø 4 (0.157)/ Ø 6 (0.236) - PA coated



Cable version Ø 6 (0.236)/ Ø 11 (0.433) - PA coated



Rod version Ø 16 (0.63)



SITRANS LG260, dimensions in mm (inch)

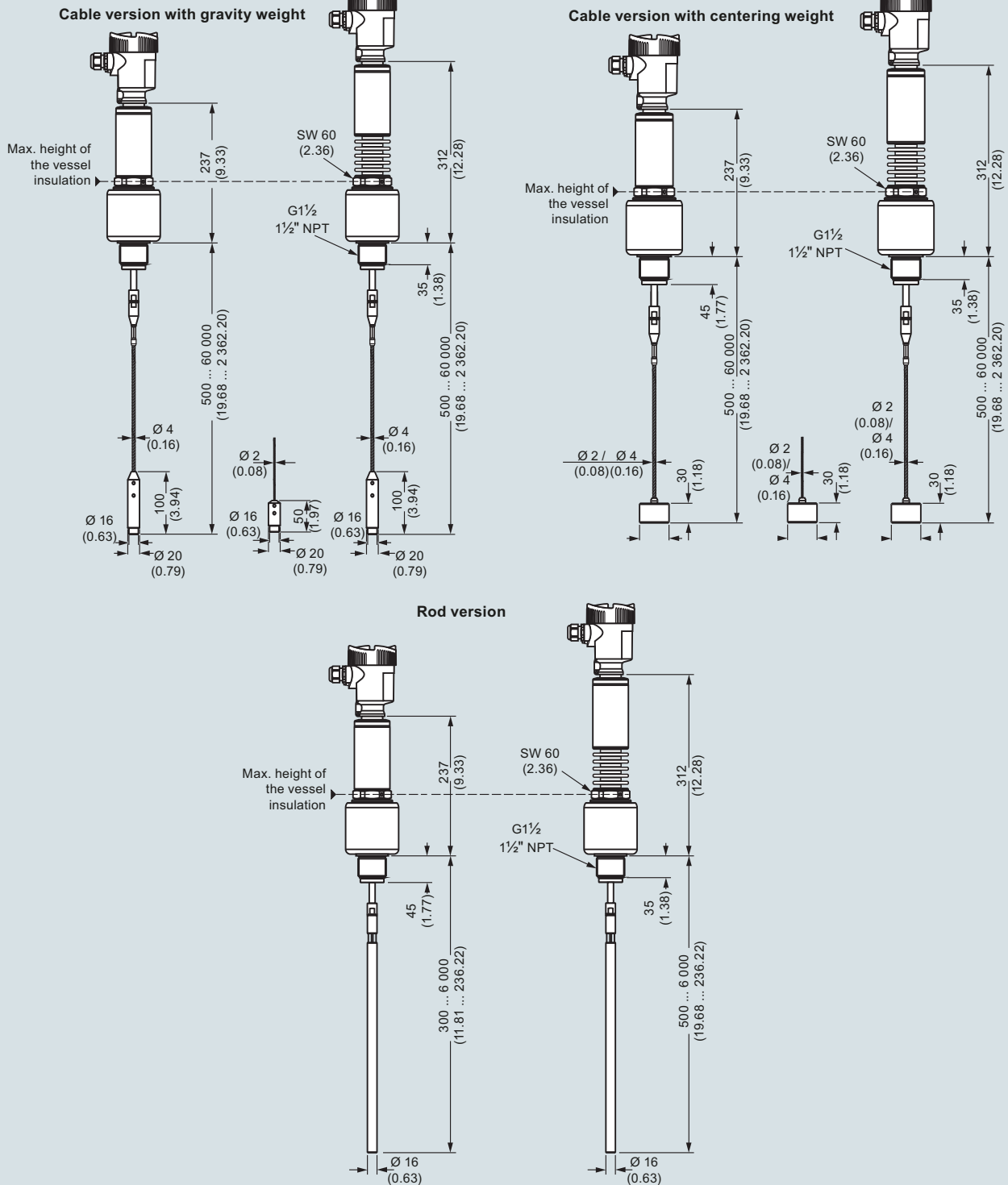
Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

4

SITRANS LG270



SITRANS LG270, dimensions in mm (inch)

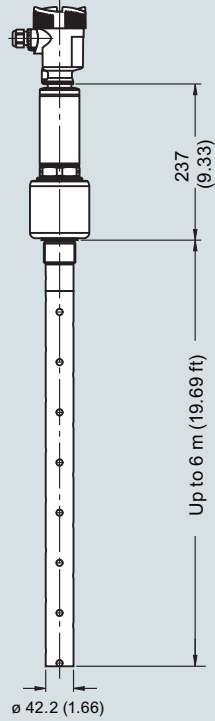
Level Measurement

Continuous level measurement
Guided wave radar transmitters

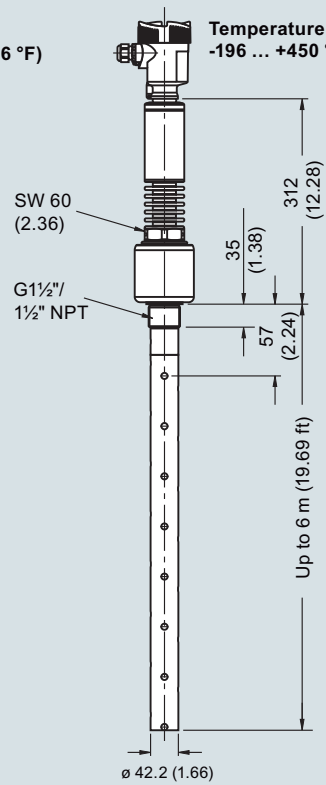
SITRANS LG series

SITRANS LG270, coax version

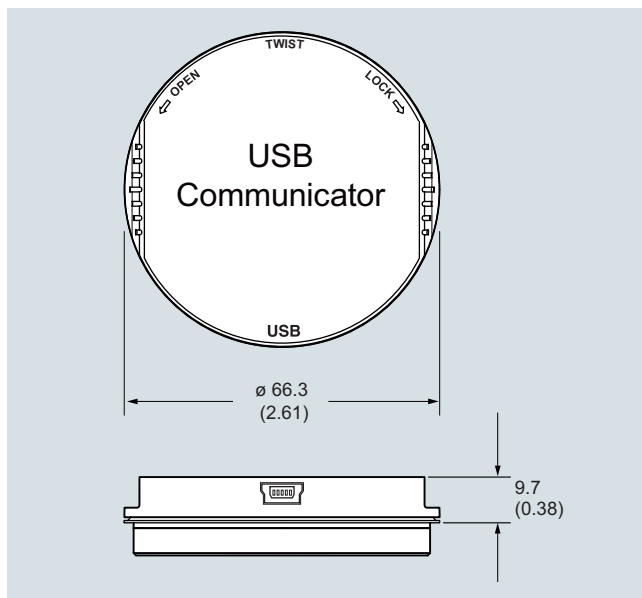
Temperature version
-196 ... +280 °C (-321 ... 536 °F)



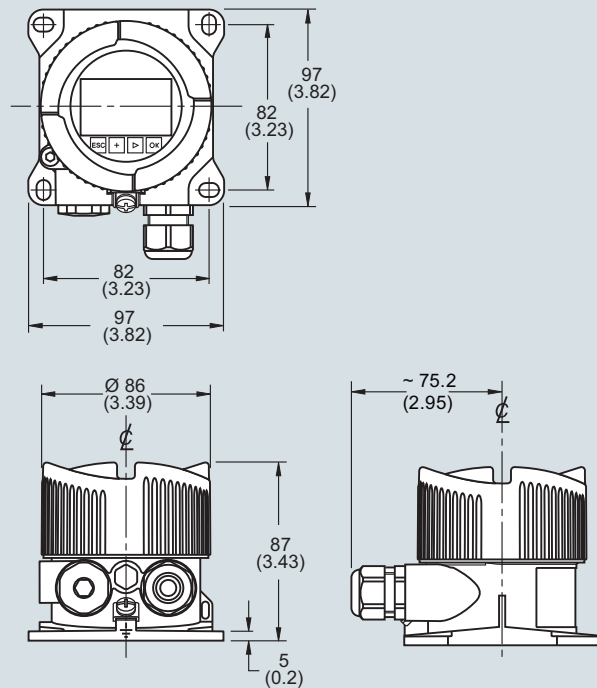
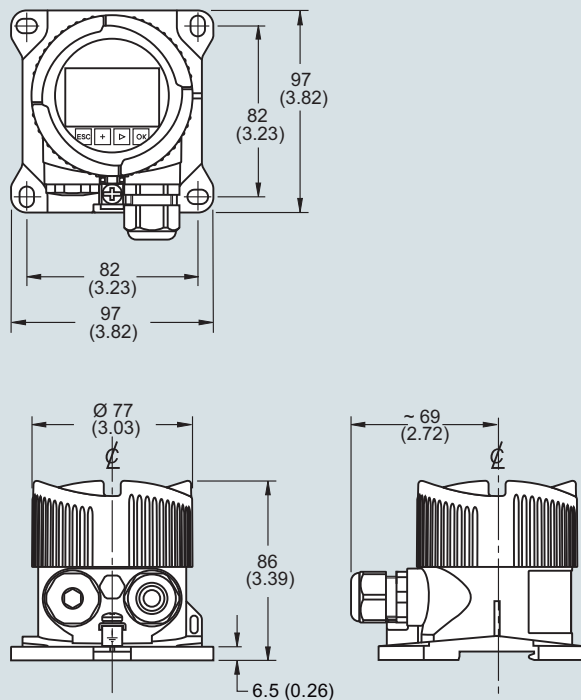
Temperature version
-196 ... +450 °C (-321 ... 842 °F)



SITRANS LG270, dimensions in mm (inch)



SITRANS LG USB Communicator, dimensions in mm (inch)

SITRANS LG remote interface, aluminum housing**SITRANS LG remote interface, plastic housing**

SITRANS LG remote interface, dimensions in mm (inch)

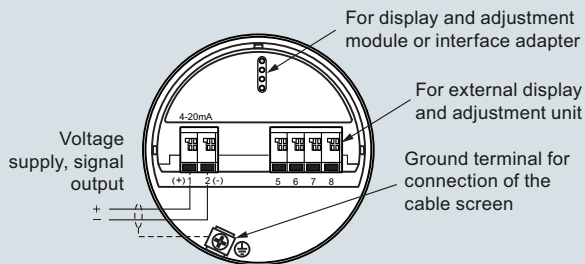
Level Measurement

Continuous level measurement
Guided wave radar transmitters

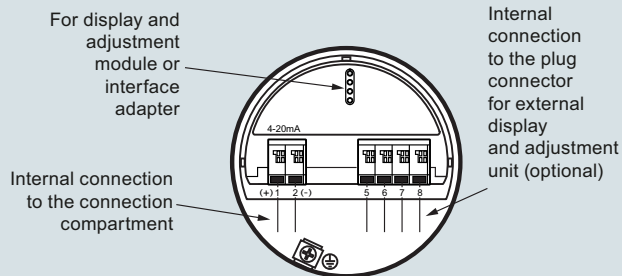
SITRANS LG series

Circuit diagrams

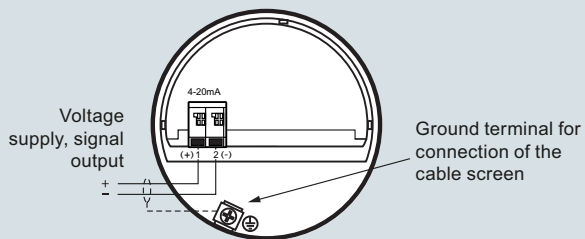
2-wire HART electronic option, electronics and connection compartment, single chamber housing



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



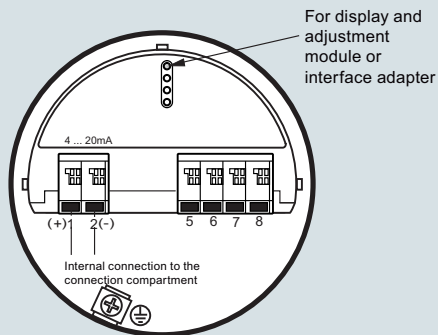
2-wire HART electronic option, connection compartment, Ex-d-ia double chamber housing



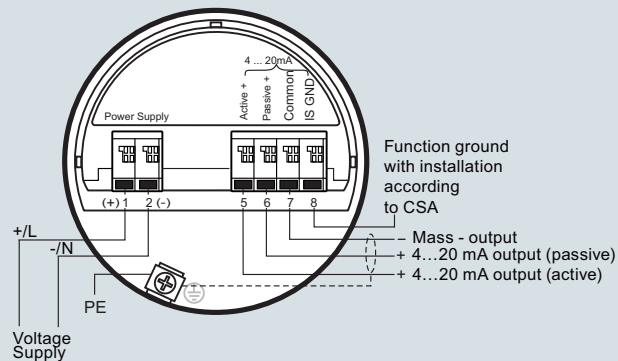
Note: All 2-wire HART connections and electronics are also available with SIL qualification.

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

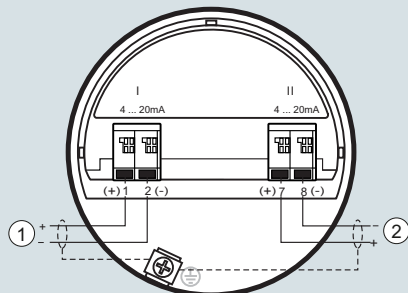


SITRANS LG series connections

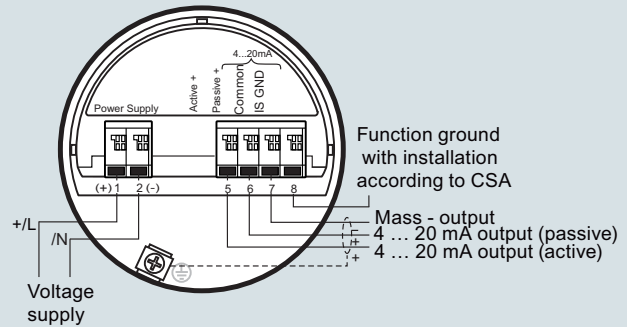
Level Measurement

Continuous level measurement
Guided wave radar transmitters

SITRANS LG series

Supplementary electronics

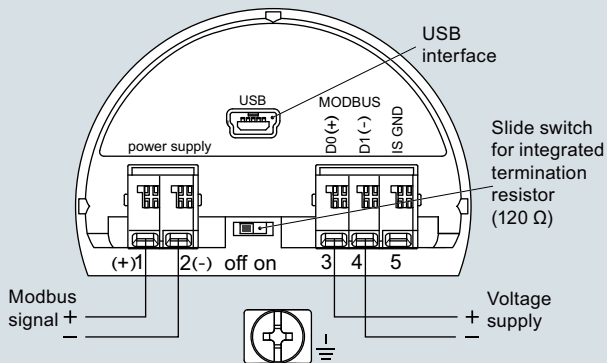
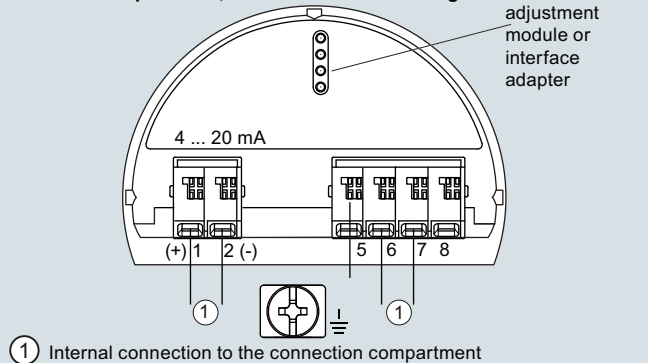
- ① First current output (I) - Voltage supply and signal output (HART)
- ② Second current output (II) - Voltage supply and signal output (without HART)

Connection compartment with low voltage

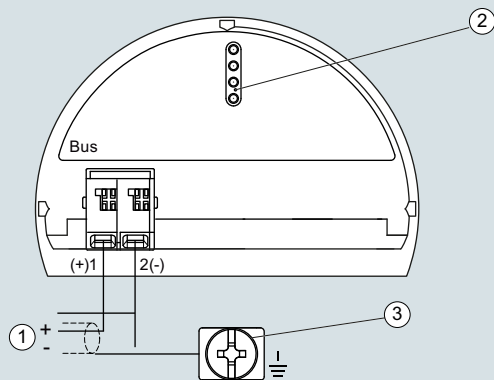
Function ground
with installation
according to CSA

Mass - output
4 ... 20 mA output (passive)
4 ... 20 mA output (active)

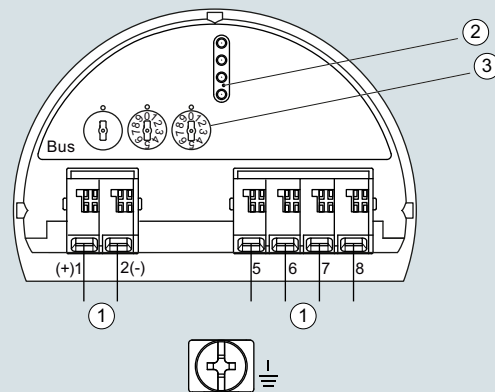
SITRANS LG series connections

Modbus electronic option, connection compartment**Modbus electronic option, electronics compartment, double chamber housing**

SITRANS LG series connections

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

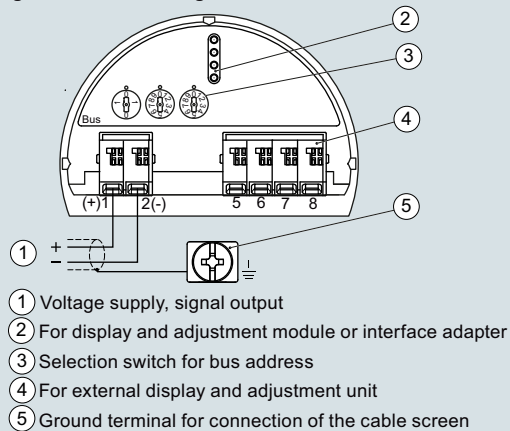
LG series connections

Level Measurement

Continuous level measurement
Guided wave radar transmitters

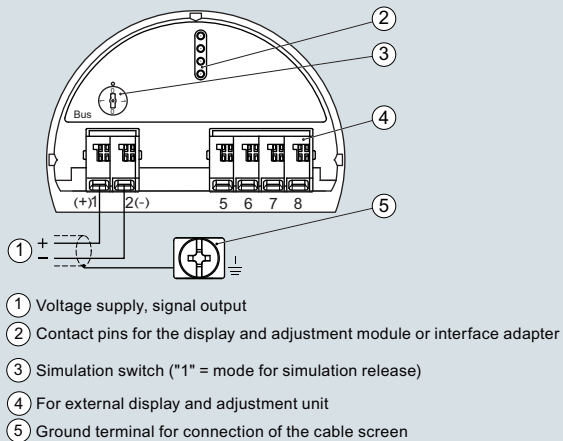
SITRANS LG series

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



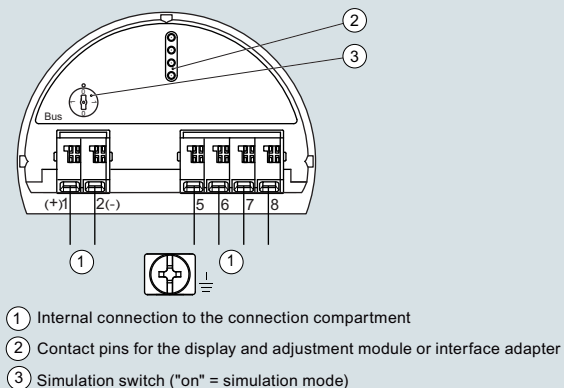
LG series connections

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

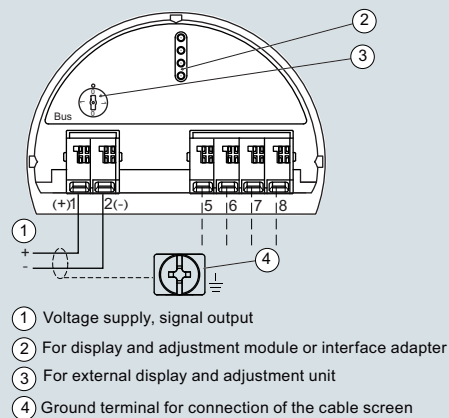


LG series connections

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



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



LG series connections