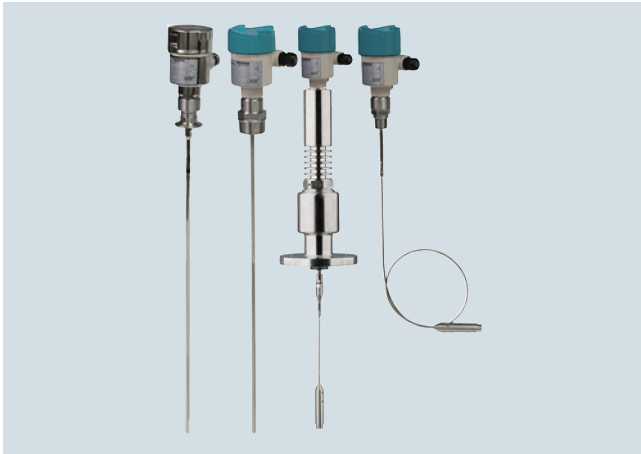


Overview



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

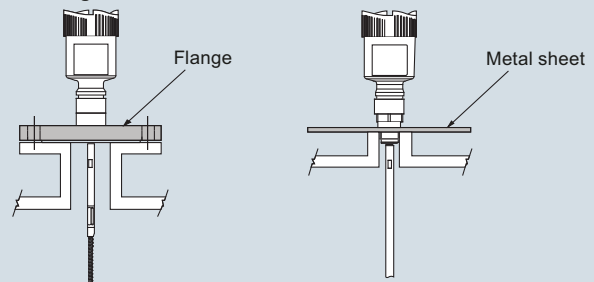
Application

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

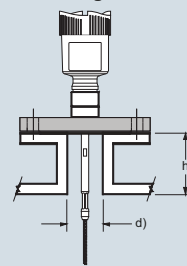
Mounting on nozzle



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

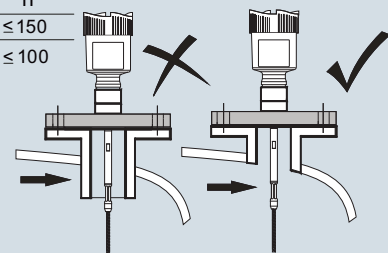
Mounting socket



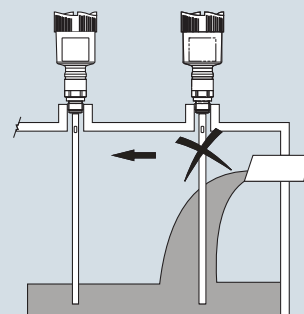
If possible, avoid sockets, mount the sensor flush with the vessel top. If this is not possible, use short sockets with small diameter. Higher sockets or sockets with a bigger diameter can generally be used. They simply increase the upper blocking distance. Check if this is relevant for your measurement.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

d	h
DN 40 ... DN 150	≤ 150
> DN 150 ... DN 200	≤ 100

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.

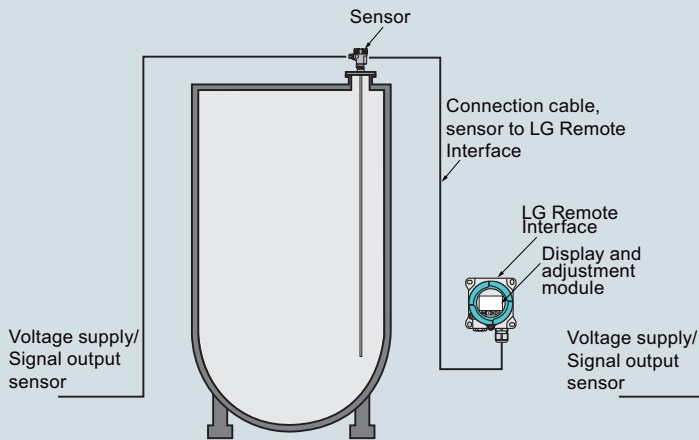
SITRANS LG Series installation

Level Measurement

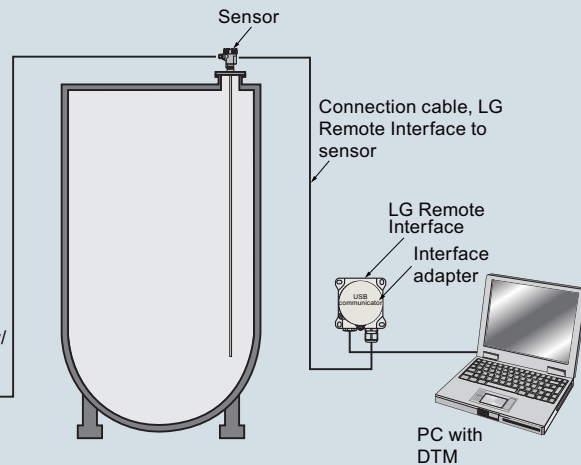
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Connection of SITRANS LG Remote Interface to the sensor



Connection of LG Remote Interface to the sensor and the PC



4

SITRANS LG Remote Interface installation

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	• Enclosure
• Startup current		• Plastic housing plastic PBT (Polyester)	
Diagnostic alarm	Failure signal current output (adjustable): last valid measured value, ≥ 21 mA, ≤ 3.6 mA	• Aluminum die-casting housing, aluminum die-casting AISi10 mg, powder-coated- basis: polyester	
Digital communication	HART Version 7 x and multidrop compatible	• Stainless steel housing, precision casting 316L	
Modbus	Modbus RTU, Modbus ASCII	• Stainless steel housing, electropolished 316L	
PROFIBUS PA	PROFIBUS PA profile 3.02	• Degree of protection	
FOUNDATION Fieldbus	FOUNDATION Fieldbus protocol Physical layer according to IEC 61158-2	• Cable inlet	• Type 4/NEMA 4, IP65
Performance		Process connections	• Plastic housing IP66/IP67
Non-linearity	Process reference conditions according to DIN EN 61298-1	• Pipe thread, cylindrical (ISO 228 T1)	• Aluminum and stainless steel housings are IP 66/68
• Coaxial		• American pipe thread, conical (ASME B1.20.1)	2 x M20 x 1.5 or 2 x 1/2" NPT
• Single rod probes		• Flanged	
• Interface models	See manual for more details	• Hygienic	
Resolution and repeatability	Accuracy +/- 2 mm (0.08 inch)	Programming	
Accuracy		Local	Four button, menu-driven data entry
• Coaxial/rod/cable probes	+/- 2 mm (0.08 inch)	Handheld communicator	Hart communicator
• Interface models	+/- 5 mm (0.197 inch)	PC	SIMATIC PDM, AMS, PACTware
	Note: Typical deviation, Interface measurement. See manual for full explanation.	Power	
Electromagnetic compatibility (check if needed)		2-wire Hart version	9.6 ... 35 V DC
• Measuring cycle time	< 500 ms	4-wire versions	9.6 ... 48 V DC, 20 ... 42 V AC, 50/60 Hz, and 90 ... 253 V AC, 50/60 Hz
• Step response time	≤ 3 s	Modbus	8 ... 30 V DC
• Temperature Effects	The measurement error from the process conditions is in the specified pressure and temperature range of below 1 %	PROFIBUS PA	9 ... 32 V DC
Rated operating conditions		FOUNDATION Fieldbus	9 ... 32 V DC
Ambient temperature for enclosure	-40 ... +80 °C (-40 ... +176 °F)	Note: see manual for specific power based on ordered options	
LCD readable temperature range	-40 ... +80 °C (-40 ... +176 °F) with display heated option	Certificates and approvals	
Location	Indoor/outdoor	Hazardous approvals:	ATEX, FM, CSA, IECex Note: other regional approvals are available
Installation category	II	Hygienic approvals:	EHEDG, FDA
Pollution degree	2	Overfill protection	WHG, VlareM
Relative Humidity	20 ... 85 %	Ship approval	ABS, CCS, GL, BV, LR

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

	SITRANS LG240	SITRANS LG250	SITRANS LG260	SITRANS LG270
Industries	Food, Beverage and Pharmaceutical	Chemical/HPI/Power/General	Cement, power generation, food, processing, mineral processing, mining	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	<ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare 	<ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare 	<ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare 	<ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
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.		
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Approvals			Process fitting/Material		
General purpose (CSA, FM, CE) ⁹⁾³⁰⁾	0 A		Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/1.4435 (BN2) ⁴⁾	0 0	
Overfill protection (WHG; VLAREM) ²⁸⁾³⁰⁾	0 C		Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 1	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁹⁾³⁰⁾	0 E		Clamp 2 1/2" PN 10 (ø 77.5 mm) DIN 32676, ISO2852/1.4435 (BN2) ⁴⁾	0 2	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG;VLAREM) ⁹⁾²⁸⁾³⁰⁾	0 F		Clamp 2 1/2" PN 10 (ø 77.5 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 3	
ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ¹⁵⁾²⁴⁾²⁶⁾²⁷⁾	0 H		Clamp 3" PN 10 (ø 91 mm) D N 32676, ISO2852/1.4435 (BN2) ⁴⁾	0 4	
ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁾¹²⁾²⁷⁾	0 J		Clamp 3" PN 10 (ø 91 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 5	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ¹⁾¹²⁾¹⁵⁾²⁴⁾²⁷⁾	0 K		Clamp 4" PN 6 (ø 119 mm) DIN 32676, ISO2852/1.4435(BN2) ⁴⁾	0 6	
ATEX II 1D, 1/2D, 2D IP6x T ¹⁵⁾²⁴⁾²⁶⁾²⁷⁾	0 N		Clamp 4" PN 6 (ø 119 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 7	
IEC Ex ia IIC T6 ⁹⁾³⁰⁾	0 P		Clamp 1½" PN 16 (ø 50.5 mm) DIN 32676, ISO2852/1.4435 (BN2)	4 0	
IEC Ex ia IIC T6 + IEC IP6x T tD ¹⁵⁾²⁴⁾²⁶⁾²⁷⁾	0 Q		Bolting DN 32, PN 40 DIN 11851/1.4435(BN2) ⁴⁾	0 8	
IEC Ex d ia IIC T6 ¹⁾¹²⁾²⁷⁾	0 R		Bolting DN 32, PN 40 DIN 11851/PTFE-TFM 1600	1 0	
IEC Ex d ia IIC T6 + IEC IP6x T tD ¹⁾¹²⁾¹⁵⁾²⁴⁾²⁷⁾	0 S		Bolting DN 40, PN 40 DIN 11851/1.4435 (BN2) ⁴⁾	1 1	
FM (NI) Class I, Div. 2, Groups A, B, C, D	1 A		Bolting DN 40, PN 40 DIN 11851/PTFE-TFM 1600	1 2	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ³⁰⁾	1 B		Bolting DN 50, PN 25 DIN 11851/1.4435(BN2) ⁴⁾	1 3	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹²⁾	1 C		Bolting DN 50, PN 25 DIN 11851/PTFE-TFM 1600	1 4	
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ⁹⁾¹⁵⁾²⁶⁾²⁷⁾²⁹⁾	1 E		Bolting DN 65, PN 25 DIN 11851/PTFE-TFM 1600	1 5	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁹⁾³⁰⁾	1 F		Flange DN 25, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 0	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹²⁾	1 G		Flange DN 40, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 1	
NEPSI Ex ia IIC T6 ⁹⁾³⁰⁾	2 A		Flange DN 50, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 2	
NEPSI Ex ia IIC T6 + DIP A20/21 TA T*	2 B		Flange DN 50, PN 40 Form V13, DIN 2513/PTFE-TFM 1600	2 3	
NERSI Ex d ia IIC T6	2 C		Flange DN 65, PN 40 Form C, DIN 2513/PTFE-TFM 1600	2 4	
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T*	2 D		Flange DN 80, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 5	
NEPSI Ex d IIC T6	2 E		Flange DN 100, PN 16 Form C, DIN 2501/PTFE-TFM 1600	2 6	
NEPSI Ex d IIC T6 + DIP A20/21 TA T*	2 F		Flange DN 80, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600	2 7	
NEPSI DIP A20/21 TA T*	2 G		Flange DN 100, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600	2 8	
INMETRO Ex ia IIC T6 ... T1 ⁹⁾³⁰⁾	3 A		Flange 2" 150 lb RF, ANSI B16.5/PTFE-TFM 1600	3 0	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb	3 B		Flange 2" 300 lb RF, ANSI B16.5/PTFE-TFM 1600	3 1	
INMETRO Ex d ia IIC T6 ... T1	3 C		Flange 3" 150 lb RF, ANSI B16.5/PTFE-TFM 1600	3 2	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb	3 D		Flange 4" 150 lb RF, ANSI B16.5/PTFE-TFM 1600	3 3	
INMETRO Ex d IIC T6 ... T1	3 E		Note: The pressure limit for all PTFE coated versions is 16 bar (per manual).		
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb	3 F				
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db	3 G				
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ³³⁾	5 A				
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ³¹⁾³⁴⁾	5 B				
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ³²⁾³⁵⁾	5 C				
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ¹⁾³⁵⁾	5 D				
Probe version/Material					
Probe cable ø 4 mm (0.16 inch) with gravity weight/PFA ²⁾⁷⁾	A				
Probe exchangeable rod ø 8 mm (0.31 inch)/1.4435 (Basle standard) ³⁾⁷⁾	B				
Probe exchangeable rod ø 8 mm (0.31 inch)/1.4435 (Basle standard) can be autoclaved ³⁾⁷⁾	C				
Probe rod ø 10 mm (0.39 inch)/PFA ²⁾⁷⁾	D				
Probe exchangeable rod (ø 8 mm) /1.4435 (BN2), electropolished (Ra < 0.38 µm) ⁷⁾	E				

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 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.		
Electronics			Stainless steel double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	S	
Two-wire 4 ... 20mA/HART		0	Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug	Z	Q 2 A
Four-wire Modbus ¹⁹⁾ 20)21)22)		1	Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug	Z	Q 2 B
Two-wire 4 ... 20mA/HART with SIL qualification ¹⁸⁾		2			
Four-wire 4 ... 20mA/HART; 90 ... 253 V AC; 50/60 Hz ¹⁸⁾ 10)		3			
Four-wire 4 ... 20mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹⁸⁾ 10)		4			
PROFIBUS PA ²⁵⁾		5			
FOUNDATION Fieldbus		6			
Seal/Process temperature			Lengths		
Without glass seal/-40 ... +150 °C (-40 ... +302 °F) ⁵⁾ 11)		A	<u>Rod ø 8 mm (0.31 inch)/1.4435 (Basle standard 300 ... 4 000 mm)</u>		
FFKM (Kalrez 6221)/-20 ... 150 °C (-4 ... +302 °F)		B	300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾	0	
EPDM (Freudenberg 70 EPDM 291)/-20 ... 130 °C (-4 ... +266 °F)		C	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁴⁾	1	
			2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾	2	
			3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾	3	
Housing/Protection/Cable			<u>Rod ø 10 mm (0.24 inch)/PFA (300 ... 4 000 mm)</u>		
Plastic IP66/IP67 M20 x 1.5/blind stopper		A	300 mm (11.81 inch) ¹⁴⁾	9	R 1 A
Plastic IP66/IP67 1/2" NPT/blind stopper		B	500 mm (19.69 inch) ¹⁴⁾	9	R 1 B
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		C	300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾	9	R 1 C
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		D	1 001 ... 5 000 mm (39.41 ... 78.74 inch) ¹⁴⁾	9	R 1 D
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		E	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾	9	R 1 E
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		F	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾	9	R 1 F
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		G	<u>Cable ø 4 mm (0.16 inch)/PFA (500 ... 32 000 mm)</u>		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		H	500 mm (9.69 inch)	9	R 1 G
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		J	501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 1 H
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		K	1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9	R 1 J
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		L	2 001 ... 4 000 mm (78.78 ... 157.40 inch)	9	R 1 K
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		M	4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9	R 1 L
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		N	5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 1 M
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		P	10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 1 N
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		Q	15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 1 P
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		R	20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 1 Q
Aluminum single chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		W	25 001 ... 32 000 mm (984.29 ... 1 259.52 inch)	9	R 1 R
Aluminum double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		X	<u>Exchange rod ø 8 mm (0.31 inch)/1.4435 (BN2), electropolished (Ra < 0.38 µm)</u>		
Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		Y	300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾	9	R 2 A
			1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁴⁾	9	R 2 B
			2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾	9	R 2 C
			3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾	9	R 2 D

Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs (mandatory)		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	
Supplementary electronics		Accessories	
Without	A00	SITRANS LG, GWR sensor Display Module	A5E34143449
Additional current output 4 ... 20 mA ¹⁾²³⁾	A01	SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
Indicating/adjustment module		SITRANS LG, USB communicator	A5E35192015
Without	E00	SITRANS LG, Mounting eye M12 x 20	PBD:51041448
Mounted	E01	SITRANS LG, Mounting spring	PBD:51041449
Laterally mounted ¹⁾	E02	Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
Language of display		SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
German	L00	SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
English	L01	SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
French	L02	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
Dutch	L03		
Italian	L04		
Spanish	L05		
Portuguese	L06		
Russian	L07		
Chinese	L08		
Japanese	L09		
Operating instructions			
German	M00		
English	M01		
French	M02		
Spanish	M03		
Further designs (optional)			
Please add "-Z" to Article No. and specify Order code(s).			
Enter the total insertion length in plain text description	Y01		
Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm	Y02		
Cleaning included certificate: oil, grease and silicone free	W01		
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		
3.1-Inspection Certificate for instrument (EN 10204) ¹⁶⁾	C12		
3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹⁶⁾	D07		
3.1-Inspection Certificate for instrument with test data (EN 10204) ¹⁶⁾	C25		
2.2-Factory certificate for material (EN 10204) ¹⁶⁾	C15		
Quality and test plan ¹⁶⁾	C26		
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ¹⁶⁾	C13		
X-ray test + 3.1 certificate/instrument ¹⁶⁾	C14		
Positive material identification test + 3.1 certificate/instrument ¹⁶⁾	C16		
Roughness test + 3.1 certificate/instrument ¹⁶⁾	C18		
Pressure test + 3.1 certificate/instrument ¹⁶⁾	C31		
Helium leak test + 3.1 certificate/instrument ¹⁶⁾	C32		
Ferrite measuring accuracy to DIN 32514-1 + 3.1 certificate/instrument ¹⁶⁾	C60		
Pressure test according to Norsok + 3.1 certificate/instrument ¹⁶⁾	C61		
5 point calibration certificate (min. length 1 000 mm) ¹⁶⁾	C62		
		For applicable back up point level switch - see point level measurement section	
		1) Available with Housing/Protection/Cable options E, F, L, M only	
		2) Available only with Process fitting/Material options 01, 03, 05, 07, 10, 12, 14 ... 33 (PTFE-TFM 1600 options)	
		3) Available only with Process Fitting/Material options 00, 02, 04, 06, 08, 11, and 13 [1.4435 (BN2) options]	
		4) Available with Length options 0, 1, 2, 3 only (Rod ø 8 mm 1.4435 options)	
		5) Available with Length options R1A ... R1R only (Rod ø 10 mm/PFA and Cable ø 4 mm/PFA options)	
		7) Available only with the same rod or cable diameter in Length options	
		8) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01	
		9) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0P, 1E, 1F, 2A, and 3A	
		10) Available with Approval options 0A, 0J, 0K, 0N, 0R, 0S, 1A, 1C, 1E, 1G, 2C, 2D, 2G, 3C, 3D, 3G	
		12) Available with Indicating/adjustment module options E00 and E01	
		14) Not available with Y02	
		15) Available with Housing/Protection/Cable options C, D, E, F, G, H, L, M	
		16) Listed Certificates are not available with all configurations, please contact factory for more information	
		18) Available with Supplementary electronic option A00, SIL electronics	
		19) Only available with Approval options 0A, 0J, 0K, 0R, 0S, 1A, 1C, 1E, and 1G	
		20) Available with Housing/Protection/Cable options E, F, L, M, and P	
		21) Available with Supplementary Electronic option A00	
		22) Available with Indicating/adjustment module options E00, E01	
		23) Not available with Indicating/adjustment module option E02	
		24) Available with Housing/Protection/Cable options D, F, H, M, X, and S	
		25) Not available with Supplementary Electronic option A01	
		26) Available with Housing/Protection/Cable options W and Y	
		27) Available with Housing/Protection/Cable options X and S	
		28) Available with Electronics options 0, 2, and 5	
		29) Not available with Housing/Protection/Cable options A and B	
		30) Available with Housing/Protection/Cable options Q2A and Q2B (Approval option 0A excluding CSA)	
		31) Only available with Housing/Protection/Cable options C, D, E, F, G, H, L, M, W, X, Y, S	
		32) Only available with Housing/Protection/Cable options E, F, L, M, X, S	
		33) Only available with Electronics options 0, 2, 5, 6	
		34) Only available with Electronics options 0 and 2	
		35) Only available with Electronics options 0 ... 4	
		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 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			Probe version/Material		
General purpose (CSA, FM, CE) ¹⁶⁾⁵⁰⁾⁵³⁾	0 A		Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316L ⁸⁾⁹⁾¹¹⁾²⁶⁾	A	
Shipping approval ¹⁹⁾²⁸⁾²⁹⁾⁵²⁾⁵⁴⁾	0 B		Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ⁸⁾⁹⁾¹²⁾²⁶⁾	B	
Overfill protection (WHG; VLAREM) ⁴⁶⁾⁵⁰⁾⁵³⁾	0 C		Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ⁸⁾⁹⁾¹¹⁾²⁶⁾	C	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ¹⁶⁾⁵⁰⁾⁵³⁾	0 E		Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ⁸⁾⁹⁾¹²⁾²⁶⁾	D	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ¹⁶⁾⁴⁶⁾⁵⁰⁾⁵³⁾	0 F		Probe exchangeable rod ø 8 mm (0.31 inch)/316L ²⁾⁸⁾¹⁰⁾¹¹⁾²⁶⁾	E	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ¹⁹⁾²⁸⁾²⁹⁾⁵²⁾⁵⁴⁾	0 G		Probe exchangeable rod ø 12 mm (0.47 inch)/316L ³⁾⁸⁾¹⁰⁾¹¹⁾²⁶⁾	F	
ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ²³⁾⁴⁰⁾⁴⁴⁾⁴⁵⁾	0 H		Probe coax version ø 21.3 mm (0.84 inch) with single hole/316L ⁸⁾⁹⁾¹¹⁾²⁶⁾²⁷⁾	G	
ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁾²¹⁾²³⁾⁴⁵⁾	0 J		Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/316L ⁸⁾⁹⁾¹¹⁾²⁶⁾²⁷⁾	H	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ^{1) 21)23)40)45)}	0 K		Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ⁵⁾⁸⁾⁹⁾¹¹⁾²⁶⁾²⁷⁾	K	
ATEX II 1/2G, 2G Ex d IIC T6 ¹⁴⁾²⁰⁾	0 L		Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/Alloy C22 (2.4602) ⁸⁾	L	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ¹⁴⁾²⁰⁾²³⁾⁴⁰⁾⁴⁴⁾	0 M		Probe exchangeable cable ø 4 mm (0.16 inch) with centre weight/Alloy C22 (2.4602) ⁸⁾	M	
ATEX II 1D, 1/2D, 2D IP6x T ²⁰⁾²³⁾⁴⁰⁾⁴⁴⁾⁴⁵⁾	0 N		Probe exchangeable rod ø 8 mm (0.31 inch)/Alloy C22 (2.4602) ⁸⁾	N	
IEC Ex ia IIC T6 ¹⁶⁾⁵⁰⁾⁵³⁾	0 P		Probe exchangeable rod ø 12 mm (0.47 inch)/Alloy C22 (2.4602) ⁸⁾	P	
IEC Ex ia IIC T6 + IEC IP6x T d ²⁰⁾²³⁾⁴⁰⁾⁴⁴⁾⁴⁵⁾	0 Q		Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/Alloy C22 (2.4602) ⁸⁾	Q	
IEC Ex d ia IIC T6 ¹⁾²¹⁾²³⁾⁴⁰⁾⁴⁵⁾	0 R		Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602) ⁸⁾	R	
IEC Ex d ia IIC T6 + IEC IP6x T d ¹⁾²⁰⁾²¹⁾⁴⁰⁾⁴⁴⁾⁴⁵⁾	0 S		Probe exchangeable rod ø 8 mm (0.31 inch)/Duplex (1.4462) ⁸⁾	S	
IEC Ex d IIC T6 ¹⁴⁾²⁰⁾	0 T		Exchangeable rod ø 12 mm (0.47 inch)/Alloy 400 (2.4360) ⁸⁾	T	
IEC Ex d IIC T6 + IEC IP6x T d ¹⁴⁾²⁰⁾²³⁾⁴⁰⁾⁴⁴⁾	0 U				
FM (NI) Class I, Div. 2, Groups A, B, C, D ²⁰⁾⁵¹⁾⁵³⁾	1 A				
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁵³⁾	1 B				
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾²¹⁾²³⁾	1 C				
FM (XP) Class I, Div. 1, Groups A, B, C, D ²⁰⁾	1 D				
CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP) Class II, III, Div. 1, Groups E, F, G ¹⁶⁾⁴⁴⁾⁴⁵⁾⁵¹⁾	1 E				
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁶⁾⁵⁰⁾⁵³⁾	1 F				
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾²¹⁾²³⁾	1 G				
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁴⁾²⁰⁾	1 H				
NEPSI Ex ia IIC T6 ¹⁶⁾⁴⁶⁾⁵³⁾	2 A				
NEPSI Ex ia IIC T6 + DIP A20/21 TA T ^{*43)}	2 B				
NEPSI Ex d ia IIC T6 ⁴³⁾⁴⁷⁾	2 C				
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ^{*43)47)}	2 D				
NEPSI Ex d IIC T6 ⁴³⁾	2 E				
NEPSI Ex d IIC T6 + DIP A20/21 TA T ^{*43)}	2 F				
NEPSI DIP A20/21 TA T ^{*43)48)}	2 G				
INMETRO Ex ia IIC T6 ... T1 ¹⁶⁾⁴⁶⁾⁵³⁾	3 A				
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ⁴³⁾	3 B				
INMETRO Ex d ia IIC T6 ... T1 ⁴³⁾⁴⁷⁾	3 C				
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ⁴³⁾⁴⁷⁾	3 D				
INMETRO Ex d IIC T6 ... T1 ⁴³⁾⁴⁶⁾	3 E				
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁴³⁾	3 F				
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db ⁴³⁾⁴⁸⁾	3 G				
KOSHA Ex d IIC T6 ... T1 - KE ¹⁴⁾²⁰⁾⁵²⁾	4 A				
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ⁶⁰⁾	5 A		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIC T ... IP66 ⁵⁶⁾⁵²⁾	5 B	
			GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ⁵⁷⁾⁶¹⁾	5 C	
			GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIC T ... IP66 ⁵⁸⁾⁶¹⁾	5 D	
			GOST-R/EAC 1 Ex d IIC T1 ... T6 X ⁵⁹⁾⁵²⁾	5 E	
			GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIC T ... IP66 ¹⁴⁾⁵²⁾	5 F	
			GOST-R/EAC Ex t IIC T ... IP66 ⁵⁶⁾⁶¹⁾	5 G	

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.		
Process fitting/Material					
Thread G 3/4" (DIN 3852-A) PN 6/316L	00		Flange DN 100 PN 40 Form V13, DIN 2513/316L	31	
Thread 3/4" NPT (ASME B1.20.1) PN 6/316L	01		Flange DN 150 PN 16 Form C, DIN 2501/316L	32	
Thread G 3/4" (DIN 3852-A) PN 40/316L	02		Flange DN 50 PN 40 EN 1092-1 Form B1/316L	33	
Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	03		Flange DN 80 PN 40 EN 1092-1 Form B1/316L	34	
Thread G 3/4" (DIN 3852-A) PN 100 / 316L ⁴²⁾	04		Flange 1" 150 lb RF, ANSI B16.5/316L	35	
Thread 3/4" NPT (ASME B1.20.1) PN 100/316L ⁴²⁾	05		Flange 1 1/2" 150 lb RF, ANSI B16.5/316L	36	
Thread G 1" (DIN 3852-A) PN 40/316L	06		Flange 2" 150 lb RF, ANSI B16.5/316L	37	
Thread 1" NPT (ASME B1.20.1) PN 40/316L	07		Flange 2" 300 lb RF, ANSI B16.5/316L	38	
Thread G 1" (DIN 3852-A) PN 100/316L ⁴²⁾	08		Flange 3" 150 lb RF, ANSI B16.5/316L	40	
Thread 1" NPT (ASME B1.20.1) PN 100/316L ⁴²⁾	10		Flange 3" 300 lb RF, ANSI B16.5/316L	41	
Thread G 1 1/2" (DIN 3852-A) PN 40/316L	11		Flange 4" 150 lb RF, ANSI B16.5/316L	42	
Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	12		Flange 4" 300 lb RF, ANSI B16.5/316L	43	
Thread G 1 1/2" (DIN 3852-A) PN 100/316L ⁴²⁾	13		Flange 6" 150 lb RF, ANSI B16.5/316L	44	
Thread 1 1/2" NPT (ASME B1.20.1) PN 100/316L ⁴²⁾	14		Flange 6" 300 lb RF, ANSI B16.5/316L	45	
Thread 2 NPT PN 40, ASME B1.20.1/316L ³⁷⁾³⁸⁾	15		Thread G 3/4" PN 40, DIN3852-A / Alloy C22 (2.4602)	46	
Flange DN 25 PN 40 Form C, DIN 2501/316L	20		Thread G 1" PN 40, DIN 3852-A/ Alloy C22 (2.4602)	47	
Flange DN 25 PN 40 Form F, DIN 2501/316L	21		Thread G 1 1/2" PN 40, DIN 3852-A/ Alloy C22 (2.4602)	48	
Flange DN 40 PN 40 Form C, DIN 2501/316L	22		Thread 1 1/2" NPT PN 40, ASME B1.20.1/ Alloy C22 (2.4602)	50	
Flange DN 50 PN 40 Form C, DIN 2501/316L	23		Flange DN 50 PN 40 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating	51	
Flange DN 50 PN 40 form V13, DIN 2513/316L	24		Flange DN 50 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	52	
Flange DN 80 PN 40 Form C, DIN 2501/316L	25		Flange DN 80 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	53	
Flange DN 80 PN 40 Form V13, DIN 2501/316L	26		Flange DN 100 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	54	
Flange DN 100 PN 16 Form C, DIN 2501/316L	27		Flange DN 150 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	55	
Flange DN 100 PN 16 Form C, DIN 2501/ 316L	28		Flange DN 200 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating	56	
Flange DN 100 PN 40 Form C, DIN 2501 /316L	30		Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	57	
			Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	58	
			Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	60	
			Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	61	
			Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	62	
			Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	63	
			Flange 6" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	64	
			Thread G 3/4" (DIN 3852-A) PN 40/Duplex 1.4462	65	
			Flange DN 80 PN 40 Form F, DIN 2501/Duplex (1.4462)	66	
			Flange DN 50 PN 40 Form B1, EN 1092-1/ Duplex (1.4462)	67	
			Flange 1" 150 lb RF, ASME16.5/Duplex (1.4462)	68	
			Flange 1 1/2" 150 lb RF, ASME B16.5/Duplex (1.4462)	70	
			Flange 2" 150 lb RF, ASME B16.5/Duplex (1.4462)	71	
			Flange 2" 300 lb RF, ASME B16.5/Duplex (1.4462)	72	
			Flange 2" 600 lb RF, ASME B16.5/Duplex (1.4462)	73	
			Flange 3" 150 lb RF, ASME B16.5/Duplex (1.4462)	74	
			Flange 3" 300 lb RF, ASME B16.5/Duplex (1.4462)	75	

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, ANSI B16.5/Duplex (1.4462)	76		Electronics		
Flange 4" 150 lb FF, ANSI B16.5/Duplex (1.4462)	77		Two-wire 4 ... 20 mA/HART	0	
Flange 4" 300 lb RF, ASME B16.5/Duplex (1.4462)	78		Four-wire Modbus ³³⁾³⁵⁾³⁶⁾⁴⁹⁾	1	
Flange 4" 600 lb RF, ASME B16.5/Duplex (1.4462)	80		Two-wire 4 ... 20 mA/HART with SIL qualification ²⁴⁾³²⁾	2	
Thread 1 1/2" NPT PN 40, ASME B1.20.1/ Alloy 400 (2.4360)	81		Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60Hz ¹⁾¹⁵⁾¹⁷⁾⁴⁹⁾	3	
Flange 2" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	82		Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹⁾¹⁵⁾¹⁷⁾⁴⁹⁾	4	
Flange 2" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) solid	83		PROFIBUS PA ⁴³⁾⁴⁹⁾	5	
Flange 3" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	84		FOUNDATION Fieldbus ⁴⁹⁾	6	
Flange 3" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)	85		Seal/Second line of defense/ Process temperature		
Flange 3" 300 lb RJF, ASME B16.5/Alloy 400 (2.4360)	86		FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁶⁾	A	
Flange 4" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	87		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)	88		FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)	C	
Flange DN 25 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) solid	90	L 1 A	EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)	D	
Flange DN 25 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid	90	L 1 B	EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)	E	
Flange DN 80 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid	90	L 1 C	FFKM (Kalrez 6375)/with glass seal/-20 ... +200 °C (-4 ... +392 °F)	F	
Flange 1" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 D	EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁶⁾	G	
Flange 1 1/2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 E	EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)	H	
Flange 1 1/2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 F	EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)	J	
Flange 2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 G	Silicone FEP coated (A+P FEP-O-SEAL)/ without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁶⁾	K	
Flange 2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	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	90	L 1 J	Silicone FEP coated (A+P FEP-O-SEAL)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)	M	
Flange 2" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 K	With borosilicate glass lead through/with glass seal/-60 ... +150 °C (-76 ... +302 °F)	N	
Flange 3" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	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	90	L 1 M	FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... 80 °C (-40 ... +176 °F) ⁶⁾	Q	
Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	90	L 1 N	Housing/Protection/Cable		
Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 P	Plastic IP66/IP67 M20 x 1.5/blind stopper	A	
Flange 4" 150 lb FF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 Q	Plastic IP66/IP67 1/2" NPT/blind stopper	B	
Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 R	Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper	G	
Flange 4" 300 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 S	Plastic 2-chamber/IP66/IP67 /1/2" NPT/blind stopper	H	
Flange 4" 300 lb LT, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 T	Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Blind stopper	C	
Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 U	Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper	D	
Flange 6" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 V	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5 / Blind stopper	E	
Flange 2 1/2" 600 lb RF, Masoneilan/ Alloy C22 (2.4602) solid	90	L 1 W	Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper	F	
Flange 3" 600 lb RF, ASME B16.5/316/316L ⁵⁵⁾	90	L 1 Y	Stainless Steel (precision casting) 316L/ IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper	L	
			Stainless Steel (precision casting) 316L/ IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper	M	

Level Measurement

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SITRANS LG series

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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.		
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper		N	<u>Rod \varnothing 12 mm/316L</u>		
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		P	300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9 R 2 A	
Stainless Steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper		Q	1 001 ... 2 000 mm (39.41 ... 78.74) ²²⁾	9 R 2 B	
Stainless Steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		R	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9 R 2 C	
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland stainless steel		S	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9 R 2 D	
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		T	<u>Cable lengths \varnothing 2 or 4 mm/316L</u>		
Stainless Steel (precision casting) 316L/ IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		U	501 ... 1 000 mm (19.72 ... 39.37 inch)	9 R 2 E	
Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		V	1 000 ... 5 000 mm (39.37 ... 196.85 inch)	9 R 2 F	
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated		W	5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9 R 2 G	
Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated		X	10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9 R 2 H	
Stainless steel single chamber (precision casting)/IP66/ IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated		Y	15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9 R 2 J	
Stainless steel double chamber / IP66/ IP68 (0.2 bar) M20 x 1.5 / Cable gland brass nickel-plated		J	20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9 R 2 K	
Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Plug connector Harting HAN 7D (straight)		Z Q 1 A	25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9 R 2 L	
Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Special HARTING plug (bent) according to Tier One (ZB7555)		Z Q 1 B	30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9 R 2 M	
Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug		Z Q 2 A	35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9 R 2 N	
Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug		Z Q 2 B	40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9 R 2 P	
			45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9 R 2 Q	
			50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9 R 2 R	
			55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9 R 2 S	
			60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	9 R 2 T	
			65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	9 R 2 U	
			70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)	9 R 2 V	
			<u>Cable Lengths \varnothing 2 mm or \varnothing 4 mm/C22</u>		
			501 ... 1 000 mm (19.72 ... 39.37 inch)	9 R 4 A	
			1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9 R 4 B	
			5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9 R 4 C	
			10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9 R 4 D	
			15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9 R 4 E	
			20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9 R 4 F	
			25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9 R 4 G	
			30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9 R 4 H	
			35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9 R 4 J	
			40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9 R 4 K	
			45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9 R 4 L	
			50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9 R 4 M	
			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	
Lengths					
<u>Rod \varnothing 8 mm/316L</u>					
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾		0			
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾		1			
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾		2			
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾		3			
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾		4			
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾		5			
<u>Rod \varnothing 8 mm/Duplex</u>					
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9	R 1 A			
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾	9	R 1 B			
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9	R 1 C			
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9	R 1 D			
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾	9	R 1 E			
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾	9	R 1 F			
<u>Rod \varnothing 8 mm or \varnothing 12 mm / C22</u>					
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9	R 1 J			
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾	9	R 1 K			
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9	R 1 L			
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9	R 1 M			
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾	9	R 1 N			
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾	9	R 1 P			

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 LG250	7ML5881-		Further designs (mandatory)	
A guided wave radar sensor for continuous level and interface measurement of liquids.			Please add "-Z" to Article No. and specify Order code(s).	
<u>Coax ø 21.3 mm/316L</u>			Supplementary electronics	
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾		9 R 3 A	Without	A00
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾		9 R 3 B	Additional current output 4 ... 20 mA ¹⁾³⁹⁾	A01
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾		9 R 3 C		
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾		9 R 3 D	Dimensions centering weight (diameter/height)	
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾		9 R 3 E	Without	B00
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾		9 R 3 F	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)	B06
			ø 45 mm/30 mm (for 2 inch tubes)	B07
			ø 1.77/1.18 inch (for 2 inch Schedule 40/80)	B07
			ø 75 mm/30 mm (for 3 inch tubes)	B07
			ø 2.95/1.18 inch (for 3 inch Schedule 10/40)	B08
			ø 95 mm/30 mm (for 4 inch tubes)	B08
			ø 3.74/1.18 inch (for 4 inch Schedule 80)	B08
<u>Coax ø 21.3 mm/C22</u>			Rod mounted	
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾		9 R 5 A	Without Rod, applicable for coax or cable probe types only	C00
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾		9 R 5 B	Mounted	C01
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾		9 R 5 C	Not mounted	C02
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾		9 R 5 D		
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾		9 R 5 E	Indicating/adjustment module	
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾		9 R 5 F	Without	E00
			Mounted	E01
			Laterally mounted ¹⁾	E02
<u>Coax ø 42.2 mm/316L</u>			Language of display	
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾		9 R 3 G	German	L00
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾		9 R 3 H	English	L01
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾		9 R 3 J	French	L02
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾		9 R 3 K	Dutch	L03
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾		9 R 3 L	Italian	L04
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾		9 R 3 M	Spanish	L05
			Portuguese	L06
			Russian	L07
			Chinese	L08
			Japanese	L09
<u>Coax ø 42.2 mm/C22</u>			Operating instructions	
300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾		9 R 5 G	German	M00
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾		9 R 5 H	English	M01
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾		9 R 5 J	French	M02
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾		9 R 5 K	Spanish	M03
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾		9 R 5 L		
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾		9 R 5 M		
			Further designs (optional)	
			Please add "-Z" to Article No. and specify Order code(s).	
			Enter the total insertion length in plain text description	Y01
			Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm	Y02
			Remote electronic cable lengths: 2 m (6.6 ft). Only available with housing options Q2A and Q2B	Y10
			Remote electronic cable lengths: 5 m (16.4 ft). Only available with housing options Q2A and Q2B	Y11
			Remote electronic cable lengths: 10 m (32.8 ft). Only available with housing options Q2A and Q2B	Y12
			Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y17
			Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break.	Y18
			3.1-Inspection Certificate for instrument (EN 10204) ³⁰⁾	C12

Selection and Ordering data

Order code

Further designs (optional), continued

Please add **"-Z"** to Article No. and specify Order code(s).

3.1-Inspection Certificate for material (EN 10204 NACE MR 0175)³⁰⁾

D07

3.1-Inspection Certificate for instrument with test data (EN 10204)³⁰⁾

C25

2.2-Factory certificate for material (EN 10204)³⁰⁾

C15

Quality and test plan³⁰⁾

C26

Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204)³⁰⁾

C13

X-ray test + 3.1 certificate/instrument³⁰⁾

C14

Positive material identification test + 3.1 certificate/instrument³⁰⁾

C16

Roughness test + 3.1 certificate/instrument³⁰⁾

C18

Pressure test + 3.1 certificate/instrument³⁰⁾

C31

Helium leak test + 3.1 certificate/instrument³⁰⁾

C32

Pressure test according to Norsok + 3.1 certificate/instrument³⁰⁾

C61

5 point calibration certificate (min. length 1 000 mm)³⁰⁾⁴¹⁾

C62

Operating Instructions

All literature is available to download for free, in a range of languages, at <http://www.siemens.com/processinstrumentation/documentation>

Accessories

Article No.

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

- 1) Available with Housing/Protection cable options E, F, G, H, Q, R, and T (double chamber only)
- 2) Not available with Process fitting/Material options 04, 05, 08, 10, 13, 14
- 3) Available only with Process Fitting/Material options 11, 12, 23 ... 34, and 37 ... 45 (Not available with threaded connections less than 1.5 inch and flanges < DN 50/2 inch)
- 4) Available with Seal option N only
- 5) Not available with Process fitting/Material options 00 ... 10, 11, 12, 23 ... 34 and 37 ... 45. (Not available with threaded connections less than 1.5 inch and flanges < DN 50/2 inch)
- 6) Available only with Process fitting/Material options [00 and 01 options with max temp of 80 °C (176 °F) only available with PN 6 rated threaded connections]
- 7) Available with Version/Material option J only
- 8) Available only with the same diameter probe lengths
- 9) Available with Rod mounted option C00 only (Coax and cable version only)
- 10) Available with Rod mounted options C01, C02 only (rod versions only)

- 11) Available only with Centering weight option B00 (no centering weight option)
 - 12) Available with Centering weight options B01 ... B08 only
 - 13) Available only with Housing/Protection/Cable options E, F, G, H, Q, R, T (double chamber options only)
 - 14) Available only with Housing/Protection/Cable options C, D, L, M
 - 15) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01
 - 16) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0P, 1E, 1F, 2A, and 3A
 - 17) Not Available with Approval options 0B ... 0H 0P, 0Q, and 1B (not available with Intrinsically Safe and shipping approvals)
 - 19) Not available with Length options 3, 4, 5, R2C, and R2D
 - 20) Available only with Seal options C, E, F, J, M, N, and Q [second line of defense (with glass seal) for all explosion proof options]
 - 21) Available with Indicating/adjustment module options E00 and E01
 - 22) Not available with Y02
 - 23) Available with Housing/Protection options C, D, E, F, L, M, Q, R (dust approvals)
 - 25) Available with Process Fitting/Material options 04, 05, 08, 10, 13 ... 45
 - 26) Not available with Process fitting /Material options 04, 05, 08, 10, 13, 14
 - 27) Not available with Process Fitting/Material options 00 and 01
 - 28) Available with Housing/Protection/Cable options A, B, C, D, E, F, L, M, R, S, T, and U
 - 29) Available with Electronic option 0 only
 - 30) Listed Certificates are not available with all configurations, please contact factory for more information
 - 31) Not available with Process fitting/Material options 02, 03, 06, 07, 11, and 12 or threaded options below PN 100
 - 32) Available with supplementary electronic option A00, SIL electronics
 - 33) Available with Approvals options 0A, 0J, 0K, 0R, 0S, 1A, 1C, 1E, and 1G
 - 35) Available with supplementary electronic option A00
 - 36) Available with Indicating/adjustment module options E00, E01
 - 37) Not available with Version/Material option K
 - 38) Not available with Seal/Process temperature options A, G, K, and Q
 - 39) Not available with Indicating/adjustment module option E02
 - 40) Available with Housing/Protection/Cable options D, F, M, R (dust approvals)
 - 41) Available with Version/Material A, B, C, D, E, and F
 - 42) Only available with Seal/Process temperature N
 - 43) Not available with Supplementary electronic option A01
 - 44) Available with Housing/Protection/Cable options W and Y
 - 45) Available with Housing/Protection/Cable options J and X
 - 46) Available with Electronics options 0, 2, and 5
 - 47) Available with Electronics options 0, 1, 3, 4
 - 48) Available with Electronics options 0,1, 2, 3, 4
 - 49) Not available with Electronics options 1, 3, 4, 5, 6 and Housing/Protection/Cable option Q1A
 - 50) Available with Housing/Protection/Cable options Q1A
 - 51) Not available with Housing options A, B, G, and H
 - 52) Available with Electronics options 0 and 2 only
 - 53) Available with Housing/Protection/Cable options Q2A and Q2B
 - 54) Available with Housing/Protection/Cable option Q2B
 - 55) Only available with Version/Material options A ... K
 - 56) Only available with Housing/Protection/Cable options C, D, E, F, L, M, Q, R, W, X, Y, J
 - 57) Only available with Housing/Protection/Cable options E, F, Q, R, X, J
 - 58) Only available with Housing/Protection/Cable options E, F, Q, R
 - 59) Only available with Housing/Protection/Cable options C, D, L, M, W Y
 - 60) Only available with Electronics options 0, 2, 5, 6
 - 61) Only available with Electronics options 0 ... 4
- 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) ⁴⁾¹²⁾¹⁴⁾²¹⁾²²⁾³¹⁾	0 A		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb	3 B	
Shipping approval ⁹⁾¹⁰⁾²¹⁾³²⁾	0 B		INMETRO Ex d ia IIC T6 ... T1 ¹⁴⁾	3 C	
Overfill protection (WHG; VLAREM) ²⁶⁾³¹⁾	0 C		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ¹⁴⁾	3 D	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁴⁾¹²⁾²¹⁾²²⁾³¹⁾	0 E		INMETRO Ex d IIC T6 ... T1 ²⁷⁾	3 E	
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁴⁾¹²⁾²¹⁾²²⁾²⁶⁾³¹⁾	0 F		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ²⁷⁾	3 F	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁹⁾²¹⁾³²⁾	0 G		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ¹⁴⁾	3 G	
ATEX II 1G, 1/2G, 2G Ex ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ^{8)10) 12)21)23)24)}	0 H		KOSHA Ex d IIC T6 ... T1 – KE ³⁰⁾	4 A	
ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁾⁷⁾¹²⁾¹⁴⁾	0 J		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ³³⁾³⁶⁾	5 A	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ¹⁾⁷⁾⁹⁾¹⁰⁾	0 L		GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ³⁴⁾³⁰⁾	5 B	
ATEX II 1/2G, 2G Ex d ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁷⁾⁸⁾¹²⁾²⁴⁾	0 M		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ³⁵⁾³⁷⁾	5 C	
ATEX II 1/2G, 2G Ex d IIC T6 ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	0 N		GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIIC T ... IP66 ³⁵⁾³⁷⁾	5 D	
ATEX II 1/2G, 2G Ex d IIC + shipping approval ⁸⁾⁹⁾¹⁰⁾¹¹⁾²¹⁾²⁵⁾²⁷⁾	0 Q		GOST-R/EAC 1 Ex d IIC T1 ... T6 X ²⁵⁾³⁰⁾	5 E	
ATEX II 1/2G, 2G Ex d IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁸⁾¹¹⁾¹²⁾²¹⁾²³⁾²⁵⁾²⁷⁾	0 R		GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIIC T ... IP66 ²⁵⁾³⁰⁾	5 F	
ATEX II 1D, 1/2D, 2D IP6x T ⁸⁾¹¹⁾¹²⁾¹⁴⁾²¹⁾²³⁾²⁴⁾²⁵⁾	0 S		GOST-R/EAC Ex t IIIC T ... IP66 ³⁷⁾³⁸⁾	5 G	
IEC Ex ia IIC T6 ⁴⁾¹²⁾²¹⁾²²⁾³¹⁾	0 T		Probe version/Material		
IEC Ex ia IIC T6 + IEC IP6x T tD ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	0 U		Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316 ²⁸⁾	A	
IEC Ex d ia IIC T6 ¹⁾⁷⁾¹²⁾¹⁴⁾	1 A		Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316 ²⁾²⁸⁾	B	
IEC Ex d ia IIC T6 + IEC IP6x T tD ⁷⁾⁸⁾¹²⁾²¹⁾	1 B		Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/PA coated	C	
IEC Ex d IIC T6 ^{8)11)12)21) 25)27)}	1 C		Probe exchangeable cable ø 11 mm (0.43 inch) with gravity weight/PA coated	D	
IEC Ex d IIC T6 + IEC IP6x T tD ^{8)11)12) 21)23) 25)27)}	1 D		Probe exchangeable rod ø 16 mm (0.63 inch)/316L ²⁾⁶⁾²⁸⁾	E	
FM (NI) Class I, Div. 2, Groups A, B, C, D ¹²⁾²¹⁾²⁹⁾³¹⁾¹⁴⁾	1 F		Process fitting/Material		
FM (NI) Class I, Div. 2, Groups A, B, C, D + Ship approval ⁹⁾¹⁰⁾²¹⁾³²⁾	1 G		Thread G 3/4" (DIN 3852-A) PN 40/316L	0 0	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ¹²⁾²¹⁾³¹⁾	1 H		Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	0 1	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ⁹⁾¹⁰⁾²¹⁾	1 J		Thread G 1" (DIN 3852-A) PN 40/316L	0 2	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾⁷⁾¹²⁾¹⁴⁾	1 K		Thread 1" NPT (ASME B1.20.1) PN 40/316L	0 3	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ¹⁾⁷⁾⁹⁾¹⁰⁾	1 L		Thread G 1 1/2" (DIN 3852-A) PN 40/316L	0 4	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	1 M		Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	0 5	
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ⁴⁾⁸⁾¹²⁾¹⁴⁾²¹⁾²²⁾²³⁾²⁴⁾	1 N		Thread G 2" (DIN 3852-A) PN 40/316L	0 6	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁴⁾¹²⁾²¹⁾²²⁾³¹⁾	1 P		Flange DN 50 PN 40 Form C, DIN 2501/316L	1 0	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾⁷⁾¹²⁾¹⁴⁾	1 Q		Flange DN 80 PN 40 Form C, DIN 2501/316L	1 2	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	1 R		Flange DN 100 PN 16 Form C, DIN 2501/316L	1 3	
NEPSI Ex ia IIC T6 ⁴⁾³¹⁾	2 A		Flange DN 100 PN 40 Form C, DIN 2501/316L	1 4	
NEPSI Ex ia IIC T6 + DIP A20/21 TA T* ¹⁴⁾	2 B		Flange DN 150 PN 16 Form C, DIN 2501/316L	1 5	
NEPSI Ex d ia IIC T6 ¹⁴⁾	2 C		Flange DN 50 PN 40 EN 1092-1 Form B1/316L	1 6	
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* ¹⁴⁾	2 D		Flange DN 80 PN 40 EN 1092-1 Form B1/316L	1 7	
NEPSI Ex d IIC T6 ²⁷⁾	2 E		Flange DN 100 PN 16 EN 1092-1 Form B1/316L	1 8	
NEPSI Ex d IIC T6 + DIP A20/21 TA T* ²⁷⁾	2 F		Flange 2" 150 lb RF, ANSI B16.5/316L	3 0	
NEPSI DIP A20/21 TA T* ¹⁴⁾	2 G		Flange 2" 300 lb RF, ANSI B16.5/316L	3 2	
INMETRO Ex ia IIC T6 ... T10 ⁴⁾³¹⁾	3 A		Flange 3" 150 lb RF, ANSI B16.5/316L	3 3	
			Flange 3" 300 lb RF, ANSI B16.5/316L	3 4	
			Flange 4" 150 lb RF, ANSI B16.5/316L	3 5	
			Flange 4" 300 lb RF, ANSI B16.5/316L	3 6	
			Flange 6" 150 lb RF, ANSI B16.5/316L	3 7	

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.		
Electronics			Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	W	
Two-wire 4 ... 20 mA/HART		0	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	X	
Four-wire Modbus ¹⁶⁾¹⁷⁾¹⁸⁾¹⁹⁾		1	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 with SIL qualification ¹⁵⁾		2	Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	U	
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ¹⁾³⁾⁵⁾		3	Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug	Z	Q 2 A
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹⁾³⁾⁵⁾		4	Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug	Z	Q 2 B
PROFIBUS PA ²²⁾		5			
FOUNDATION Fieldbus		6	Lengths		
Seal/Process temperature			<u>Rod ø 16 mm/316L</u>		
FKM (SHS FPM 70C3 GLT)/-40 ... +80 °C (-40 ... +176 °F)		A	500 mm (19.69 inch)	0	
FKM (SHS FPM 70C3 GLT)/-40 ... +150 °C (-40 ... +302 °F)		B	501 ... 1 000 mm (19.72 ... 39.37 inch)	1	
FFKM (Kalrez 6375)/-20 ... +200 °C (-4 ... +392 °F)		C	1 001 ... 2 000 mm (39.41 ... 78.74 inch)	2	
EPDM (A+P 75.5/KW75F)/without/ -40 ... +80 °C (-40 ... +176 °F)		D	2 001 ... 3 000 mm (78.78 ... 118.11 inch)	3	
EPDM (A+P 75.5/KW75F)/without/ -40 ... +150 °C (-40 ... +392 °F)		E	3 001 ... 4 000 mm (118.15 ... 157.48 inch)	4	
			4 001 ... 5 000 mm (157.52 ... 196.85 inch)	5	
			5 001 ... 6 000 mm (196.89 ... 236.22 inch)	6	
Housing/Protection/Cable			<u>Cable lengths ø 4 mm/316</u>		
Plastic IP66/IP67 M20 x 1.5/blind stopper		A	501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 2 E
Plastic IP66/IP67 1/2" NPT/blind stopper		B	1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9	R 2 F
Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper		C	5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 2 G
Plastic 2-chamber/IP66/IP67/ 1/2" NPT/blind stopper		D	10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 2 H
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		E	15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 2 J
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		F	20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 2 K
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		G	25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9	R 2 L
Aluminum double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		H	30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9	R 2 M
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		J	35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9	R 2 N
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		K	40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9	R 2 P
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		L	45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9	R 2 Q
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		M	50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9	R 2 R
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		N	55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9	R 2 S
Stainless steel double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		P	<u>Cable lengths ø 6 mm/316L</u>		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		Q	500 mm (19.69 inch)	9	R 4 A
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		R	501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 4 B
Stainless steel (precision casting) 316L/ IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		S	1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9	R 4 C
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		T	5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 4 D
			10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 4 E
			15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 4 F
			20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 4 G
			25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9	R 4 H
			30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9	R 4 J

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).	
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 4 K	Supplementary electronics	
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 4 L	Without	A00
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 4 M	Additional current output 4 ... 20 mA ¹⁾²⁰⁾	A01
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 4 N	Rod mounted	
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9 R 4 P	Without Rod, applicable for coax or cable probe types only	C00
<u>Cable lengths ø 6 mm or ø 11 mm/PA coated</u>			Mounted	C01
501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 6 A	Not mounted	C02
1 001 ... 5 000 mm (39.41 ... 196.85 inch)		9 R 6 B	Indicating/adjustment module	
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 6 C	Without	E00
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 6 D	Mounted	E01
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 6 E	Laterally mounted ¹⁾	E02
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 6 F	Language of display	
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 6 G	German	L00
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 6 H	English	L01
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 6 J	French	L02
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 6 K	Dutch	L03
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 6 L	Italian	L04
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 6 M	Spanish	L05
55 001 ... 65 000 mm (2 165.39 ... 2 559.06 inch)		9 R 6 N	Portuguese	L06
			Russian	L07
			Chinese	L08
			Japanese	L09
			Operating instructions	
			German	M00
			English	M01
			French	M02
			Spanish	M03

Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs (optional)		Accessories	
Please add "-Z" to Article No. and specify Order code(s).		SITRANS LG, GWR sensor Display Module	A5E34143449
Enter the total insertion length in plain text description	Y01	SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
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, USB communicator	A5E35192015
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 eye M12 x 20	PBD:51041448
3.1-Inspection Certificate for instrument (EN 10204) ¹³⁾	C12	SITRANS LG, Mounting spring	PBD:51041449
3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹³⁾	D07	Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
3.1-Inspection Certificate for instrument with test data (EN 10204) ¹³⁾	C25	SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
2.2-Factory certificate for material (EN 10204) ¹³⁾ Quality and test plan ¹³⁾	C15	SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204) ¹³⁾	C26	SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
X-ray test + 3.1 certificate/instrument ¹³⁾	C13	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
Positive material identification test + 3.1 certificate/instrument ¹³⁾	C14	For applicable back up point level switch - see point level measurement section	
Roughness test + 3.1 certificate/instrument ¹³⁾	C16		
Pressure test + 3.1 certificate/instrument ¹³⁾	C18	1) Available only with Housing/Protection/Cable options C, D, G, H, N, P	
Helium leak test + 3.1 certificate/instrument ¹³⁾	C31	2) Not available with Process/Fitting/Material options 00, 01, 02, and 03	
Pressure test according to Norsok + 3.1 certificate/instrument ¹³⁾	C32	3) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01	
5 point calibration certificate (min. length 1 000 mm) ¹³⁾	C61	4) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0T, 1N, 1P, 2A, and 3A	
	C62	5) Not available with Approval options 0B ... 0H, 0L, 0Q, 1B, 1F, 1G, 1J, 1L (not available with Intrinsically Safe and shipping approvals)	
		6) Available with Rod Mounted options C01 and C02	
		7) Available with Indicating/adjustment module options E00 and E01	
		8) Available with Housing Protection options C,D E, F, G, H, J, K, N, P	
		9) Not available with Housing/ Protection/ Cable options L, M, and T	
		10) Available with Electronic option 0 only	
		11) Available with Seal/ Process temperature option C only	
		12) Available with Version/ Material option E only	
		13) Listed Certificates are not available with all configurations, please contact factory for more information	
		14) Available with Electronics options 3 and 4	
		15) Available with Supplementary electronic option A00, SIL electronics	
		16) Available with Approvals options 0A, 0J, 0K, 0R, 0S, 1A, 1C, 1E, and 1G	
		17) Available with Housings/ Protection/ Cable options E, F, L, M, and P	
		18) Available with Supplementary Electronic option A00	
		19) Available with Indicating/Adjustment module options E00, E01	
		20) Not available with Indicating/Adjustment module option E02	
		21) Available with Housing/Protection/Cable options F, H, P, and K	
		22) Not available with Supplementary Electronic option A01	
		23) Available with Housing/Protection/Cable options W and Y	
		24) Available with Housing/Protection/Cable options X and U	
		25) Available with Housing/Protection/Cable options E, F, J, K, W, Y only	
		26) Available with Electronics options 0, 2, and 5	
		27) Available with Seal/ Process option C	
		28) Probe options A, B, and E cannot be paired with seal options A and D	
		29) Not available with Housing options A and B	
		30) Available with Electronic options 0 and 2 only	
		31) Available with Housing/Protection/Cable options Q2A and Q2B	
		32) Available with Housing/Protection/Cable option Q2B	
		33) Not available with Housing/Protection/Cable options W, X, Y, U	
		34) Not available with Housing/Protection/Cable options A, B, C, D, L, M, Q, R, S, T, Q2A, and Q2B	
		35) Available only with Housing/Protection/Cable options G, H, N, P	
		36) Available only with Electronics options 0, 2, 5, and 6	
		37) Available only with Electronics options 0 ... 4	
		38) Available only with Housing/Protection/Cable options D, F, M, R, W, X, Y, and J	
		Note: Please consult manual for further details.	
Operating Instructions			
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation			

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data

SITRANS LG270

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) ³⁾⁴⁴⁾	0 A
Shipping approval ¹⁷⁾¹⁸⁾¹⁹⁾⁴⁵⁾	0 B
Overfill protection (WHG; VLAREM) ³⁴⁾⁴⁴⁾	0 C
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ³⁾⁴⁴⁾	0 E
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ³⁾³⁴⁾⁴⁴⁾	0 F
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ¹⁷⁾¹⁸⁾¹⁹⁾⁴⁵⁾	0 G
ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ¹⁶⁾²⁸⁾³²⁾³³⁾	0 H
ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁾¹⁰⁾¹⁴⁾³³⁾	0 J
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ¹⁾¹⁰⁾¹⁴⁾¹⁷⁾¹⁸⁾¹⁹⁾	0 L
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ¹⁰⁾¹⁴⁾¹⁶⁾²⁸⁾³³⁾	0 M
ATEX II 1/2G, 2G Ex d IIC T6 ¹¹⁾	0 N
ATEX II 1/2G, 2G Ex d IIC + ship approval ¹⁷⁾¹⁸⁾¹⁹⁾	0 Q
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ¹⁾¹⁶⁾²⁸⁾³²⁾	0 R
ATEX II 1D, 1/2D, 2D IP6x T ¹⁶⁾²⁸⁾³²⁾³³⁾⁴⁹⁾	0 S
IEC Ex ia IIC T6 ³⁾⁴⁴⁾	0 T
IEC Ex ia IIC T6 + IEC IP6x T d ¹⁶⁾²⁸⁾³²⁾³³⁾	0 U
IEC Ex d ia IIC T6 ¹⁾¹⁰⁾¹⁴⁾³³⁾	1 A
IEC Ex d ia IIC T6 + IEC IP6x T d ¹⁰⁾¹⁴⁾¹⁶⁾²⁸⁾³³⁾	1 B
IEC Ex d IIC T6 ¹¹⁾	1 C
IEC Ex d IIC T6 + IEC IP6x T d ¹¹⁾¹⁶⁾²⁸⁾³²⁾	1 D
FM (NI) Class I, Div. 2, Groups A, B, C, D ³⁷⁾⁴⁴⁾	1 F
FM (NI) Class I, Div. 2, Groups A, B, C, D + ship approval ¹⁷⁾¹⁸⁾¹⁹⁾³⁷⁾	1 G
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁴⁴⁾	1 H
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + ship approval ¹⁷⁾¹⁸⁾¹⁹⁾	1 J
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹⁰⁾¹⁴⁾	1 K
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ¹⁾¹⁰⁾¹⁷⁾¹⁸⁾¹⁹⁾	1 L
FM (XP) Class I, Div. 1, Groups A, B, C, D	1 M
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ³⁾¹⁶⁾³²⁾³³⁾	1 N
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ³⁾⁴⁴⁾	1 P
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹⁰⁾¹⁴⁾	1 Q
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹¹⁾	1 R
NEPSI Ex ia IIC T6 ³⁾⁴⁴⁾	2 A
NEPSI Ex ia IIC T6 + DIP A20/21 TA T*	2 B
NERSI Ex d ia IIC T6	2 C
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T*	2 D
NEPSI Ex d IIC T6	2 E
NEPSI Ex d IIC T6 + DIP A20/21 TA T*	2 F
NEPSI DIP A20/21 TA T*	2 G
INMETRO Ex ia IIC T6 ... T1 ³⁾⁴⁴⁾	3 A
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb	3 B
INMETRO Ex d ia IIC T6 ... T1	3 C

Selection and Ordering data

SITRANS LG270

A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications

INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb	3 D
INMETRO Ex d IIC T6 ... T1	3 E
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb	3 F
INMETRO Ex t IIC T* IP6X, Da, Da/Db, Da/Dc, Db	3 G
KOSHA Ex d IIC T6 ... T1 – KE	4 A
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X ⁴⁶⁾⁵⁰⁾	5 A
GOST-R/EAC 0 Ex ia IIC T1 ... T6 X + Ex t IIC T ... IP66 ⁴⁷⁾⁵¹⁾	5 B
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X ⁴⁸⁾⁵²⁾	5 C
GOST-R/EAC 1 Ex d ia IIC T1 ... T6 X + Ex t IIC T ... IP66 ¹⁴⁾⁵²⁾	5 D
GOST-R/EAC 1 Ex d IIC T1 ... T6 X ¹¹⁾⁵¹⁾	5 E
GOST-R/EAC 0 Ex d IIC T1 ... T6 X + Ex t IIC T ... IP66 ¹¹⁾⁵¹⁾	5 F
GOST-R/EAC Ex t IIC T ... IP66 ⁴⁹⁾⁵²⁾	5 G

Version/Material

Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316L ⁴⁾⁷⁾	A
Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ⁵⁾⁷⁾	B
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ⁴⁾⁷⁾	C
Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ⁵⁾⁷⁾	D
Probe exchangeable rod ø 16 mm (0.63 inch)/316L ⁴⁾⁷⁾⁹⁾	E
Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ⁴⁾⁷⁾	F
Probe coax version ø 42.2 mm (1.66 inch); multiple hole; reference distances/316L ⁴⁾⁷⁾¹³⁾³⁰⁾³⁶⁾	G
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/Alloy C22 (2.4602) ⁷⁾	H
Probe exchangeable rod ø 16 mm (0.63 inch)/Alloy C22 (2.4602) ⁷⁾	J
Coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602) ⁷⁾	K
Exchangeable rod, diameter 8 mm /316L (0.32 inch) ⁴²⁾⁴³⁾	L

Process fitting/Material

Thread G 1 1/2" (DIN 3852-A) PN 400/316L ⁴⁰⁾	0 0
Thread 1 1/2" NPT (ASME B1.20.1) PN 400/316L ⁴⁰⁾	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 Hastelloy C22	0 8

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 DN 50 PN 40 Form C, DIN 2501/316L	1 0		Flange 6" 300 lb RF, ANSI B16.5/316L	4 5	
Flange DN 50 PN 40 form V13, DIN 2513/316L	1 1		Flange 6" 600 lb RF, ANSI B16.5/316L	4 6	
Flange DN 65 PN 64 Form V13, DIN 2501/316L	1 2		Flange 2" 150 lb Fisher special return/316L	4 7	
Flange DN 80 PN 40 Form C, DIN 2501/316L	1 3		Flange 3" 900 lb RJF, ASME B16.5/Alloy C22 (2.4602)	4 8	
Flange DN 80 PN 40 Form V13, DIN 2501/316L	1 4		Flange 2" 900 lb RF, ANSI B16.5/316L	5 0	
Flange DN 80 PN 100 Form L, DIN 2501/316L ⁴⁰⁾	1 5		Flange 3" 1 500 lb RF, ANSI B16.5/316L	5 1	
Flange DN 100 PN 16 Form C, DIN 2501/316L	1 6		Flange 4" 900 lb RF, ANSI B16.5/316L	5 2	
Flange DN 100 PN 16 Form V13, DIN 2501/316L	1 7		Flange 4" 1 500 lb RF, ANSI B16.5/316L	5 3	
Flange DN 100 PN 40 Form C, DIN 2501/316L	1 8		Flange 4" 2 500 lb RJF, ANSI B16.5/316L ⁴⁰⁾	5 4	
Flange DN 100 PN 40 Form V13, DIN 2513/316L	2 0		Flange 4" 1500 lb RJF, ASME B16.5/316L ⁴⁰⁾	5 5	
Flange DN 150 PN 16 Form C, DIN 2501/316L	2 1		Flange 3" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 6	
Flange DN 50 PN 40 EN 1092-1 Form B1/316L	2 2		Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 7	
Flange DN 100 PN 160 GOST 12815-80.7/316L ⁴⁰⁾	2 3		Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 8	
Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 4		Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	7 0	
Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 5		Flange DN 50 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) solid	7 1	
Flange 2" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 6		Flange DN 100 PN 16 Form C, DIN 2501/C22 solid	7 2	
Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 7		Flange DN 100 PN 40 Form N, DIN 2501/Alloy C22 (2.4602) solid	7 3	
Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 8		Flange DN 50 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) solid	7 4	
Flange DN 80 PN 160 Form C, DIN 2501/316L ⁴⁰⁾	6 0		Flange 2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	7 5	
Flange DN 80 PN 250 Form L, DIN 2501/316L ⁴⁰⁾	6 1		Flange 2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	7 6	
Flange DN 50 PN 160, EN 1092-1 Form B1/316L ⁴⁰⁾	6 2		Flange 2" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	7 7	
Flange DN 50 PN 160, EN 1092-1 Form B2/316L ⁴⁰⁾	6 3		Flange 2" 900 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	7 8	
Flange DN 50 PN 320, EN 1092-1 Form B1/316L ⁴⁰⁾	6 4		Flange 2" 1 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	8 0	
Flange DN 65 PN 250, EN 1092-1 Form B1/316L ⁴⁰⁾	6 5		Flange 3" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	8 1	
Flange DN 100 PN 160, EN 1092-1 Form B2/316L ⁴⁰⁾	6 6		Flange 3" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	8 2	
Flange DN 80 PN 63, EN 1092-1 Form B2/316L	6 7		Flange 3" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	8 3	
Flange 4" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 8		Flange 4" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	8 4	
Flange 2" 150 lb RF, ANSI B16.5/316L	3 0		Flange 4" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	8 5	
Flange 2" 300 lb RF, ANSI B16.5/316L	3 1		Flange 3" 600 lb RJF for R31, ASME B16.5/Alloy C22 (2.4602) solid	8 6	
Flange 2" 600 lb RF, ANSI B16.5/316L	3 2		Flange 2" 2 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 A
Flange 2" 1 500 lb RF, ANSI B16.5/316L	3 3		Flange 3" 1 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 B
Flange 3" 150 lb RF, ANSI B16.5/316L	3 4		Flange 3" 2 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 C
Flange 3" 300 lb RF, ANSI B16.5/316L	3 5		Flange 4" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 D
Flange 3" 600 lb RF, ANSI B16.5/316L	3 6		Flange 4" 600 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 E
Flange 3" 900 lb RF, ANSI B16.5/316L	3 7		Flange 4" 900 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 F
Flange 3" 2 500 lb RF, ANSI B16.5/316L	3 8		Flange 4" 900 lb RJF, ASME B16.5/Alloy C22 (2.4602) massiv	9 0	L 1 G
Flange 3 1/2" 600 lb RF, ANSI B16.5/316L	4 0		Flange 4" 1 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 H
Flange 4" 150 lb RF, ANSI B16.5/316L	4 1		Flange 4" 2 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 J
Flange 4" 300 lb RF, ANSI B16.5/316L	4 2				
Flange 4" 600 lb RF, ANSI B16.5/316L	4 3				
Flange 6" 150 lb RF, ANSI B16.5/316L	4 4				

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 8" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	90	L 1 K	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	T	
Flange 3½" 600 lb Fisher type 249B and 259B/Alloy C22 (2.4602) solid	90	L 1 L	Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	U	
Flange 2½" 300 lb RF, ASME B16.5/316/316L	90	L 2 A	Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	V	
Flange 2½" 600 lb RF, ASME B16.5/316/316L	90	L 2 B	Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	W	
Flange DN 50 PN 40 Form D, EN 1092-1/316/316L ⁷⁾⁴¹⁾	90	L 2 C	Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	X	
Flange 2½" 1 500 lb RF, ASME B16.5/316/316L ⁷⁾	90	L 2 D	Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	Y	
Thread G 1" (DIN 3852-A) PN 100/316L	90	L 3 C	Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	J	
Thread 1" NPT, ASME B1.20.1/PN 100/316L	90	L 3 D	Remote stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug	Z	Q 2 A
Thread G 1½" (DIN 3852-A) PN 100/316L	90	L 3 E	Remote plastic single chamber housing /IP66/IP67 with cable outlet IP68 (electronics separated by cable); M20 x 1.5/blind plug	Z	Q 2 B
Thread 1½" NPT, ASME B1.20.1/PN 100/316L	90	L 3 F			
Thread 2" NPT, ASME B1.20.1/PN 100/316L	90	L 3 G			
Electronics			Lengths		
Two-wire 4 ... 20 mA/HART	0		<u>Rod ø 16 mm/316L</u>		
Four-wire Modbus ²³⁾²⁴⁾²⁵⁾²⁶⁾	1		300 mm (11.81 inch) ¹⁵⁾	0	
Two-wire 4 ... 20 mA/HART with SIL qualification ²²⁾	2		500 mm (19.69 inch) ¹⁵⁾	1	
Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ¹⁾²⁾⁶⁾	3		501 ... 1 000 mm (19.72 ... 39.37 inch) ¹⁵⁾	2	
Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹⁾²⁾⁶⁾	4		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁵⁾	3	
PROFIBUS PA ³¹⁾	5		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁵⁾	4	
FOUNDATION Fieldbus	6		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁵⁾	5	
Seal/Second line of defense/ Process temperature			4 001 ... 5 000 mm (157.52 ... 196.85 inch) ¹⁵⁾	6	
Ceramic-graphite/with glass seal/ -196 ... +280 °C (-321 ... +536 °F)	A		5 001 ... 6 000 mm (196.89 ... 236.22 inch) ¹⁵⁾	7	
Ceramic-graphite/with glass seal/ -196 ... +450 °C (-321 ... +842 °F)	B		<u>Rod ø 16 mm/C22</u>		
Ceramic-graphite/with glass seal/ -196 ... +400 °C (-321 ... +752 °F)	C		501 ... 1000 mm (19.72 ... 39.37 inch) ¹⁵⁾	9	R 1 A
PEEK-FFKM (Kalrez 6375) /with glass seal/ -20...+250 °C (-4 ... +482 °F) ³⁸⁾³⁹⁾	D		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁵⁾	9	R 1 B
Housing/Protection/Cable			2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁵⁾	9	R 1 C
Plastic IP66/IP67 M20 x 1.5/blind stopper	A		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁵⁾	9	R 1 D
Plastic IP66/IP67 1/2" NPT/blind stopper	B		4 001 ... 5 000 mm (157.52 ... 196.85 inch) ¹⁵⁾	9	R 1 E
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	C		5 001 ... 6 000 mm (196.89 ... 236.22 inch) ¹⁵⁾	9	R 1 F
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	D		<u>Rod ø 8 mm/316L</u>		
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	E		300 ... 1 000 mm (11.81 ... 39.37 inch)	9	R 1 H
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F		1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9	R 1 J
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	L		2 001 ... 3 000 mm (78.78 ... 118.11 inch)	9	R 1 K
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	M		3 001 ... 4 000 mm (118.15 ... 157.48 inch)	9	R 1 L
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	N		4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9	R 1 M
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	P		5 001 ... 6 000 mm (196.89 ... 236.22 inch)	9	R 1 N
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	Q		<u>Cable lengths ø 2 or 4 mm/316L</u>		
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	R		501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 2 E
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	S		1 000 ... 5 000 mm (39.37 ... 196.85 inch)	9	R 2 F
			5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 2 G

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 LG270	7ML5883-		Further designs (mandatory)	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications			Please add "-Z" to Article No. and specify Order code(s).	
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 2 H	Supplementary electronics	
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 2 J	Without	A00
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 2 K	Additional current output 4 ... 20 mA ¹⁾²⁷⁾	A01
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 2 L	Dimensions centering weight (diameter/height)	
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 2 M	Without	B00
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 2 N	ø 40/30 mm	B01
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 2 P	ø 45/30 mm (for 2 inch tubes)	B02
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 2 Q	ø 75/30 mm (for 3 inch tubes)	B03
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 2 R	ø 95/30 mm (for 4 inch tubes)	B04
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9 R 2 S	ø 40 mm/30 mm	B05
<u>Cable lengths ø 4 mm/ C22</u>			ø 1.57 inch/1.18 inch (for 2 inch Schedule 160)	
501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 4 A	ø 45 mm/30 mm (for 2 inch tubes)	B06
1 000 ... 5 000 mm (39.37 ... 196.85 inch)		9 R 4 B	ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80)	B07
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 4 C	ø 75 mm/30 mm (for 3 inch tubes)	B07
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 4 D	ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40)	B08
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 4 E	ø 95 mm/30 mm (for 4 inch tubes)	B08
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 4 F	ø 3.74 inch/1.18 inch (for 4 inch Schedule 80)	
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 4 G	Rod mounted	
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 4 H	Without Rod, applicable for coax or cable probe types only ³⁾	C00
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 4 J	Mounted	C01
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 4 K	Not mounted	C02
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 4 L	Indicating/adjustment module	
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 4 M	Without	E00
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9 R 4 N	Mounted	E01
<u>Coax ø 42.2 mm/316L</u>			Laterally mounted ¹⁾	E02
300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁵⁾		9 R 3 G	Language of display	
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁵⁾³⁰⁾		9 R 3 H	German	L00
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁵⁾		9 R 3 J	English	L01
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁵⁾		9 R 3 K	French	L02
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ¹⁵⁾		9 R 3 L	Dutch	L03
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ¹⁵⁾		9 R 3 M	Italian	L04
<u>Coax ø 42.2 mm/ C22</u>			Spanish	L05
300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁵⁾		9 R 3 Q	Portuguese	L06
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁵⁾³⁰⁾		9 R 3 R	Russian	L07
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁵⁾		9 R 3 S	Chinese	L08
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁵⁾		9 R 3 T	Japanese	L09
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ¹⁵⁾		9 R 3 U	Operating instructions	
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ¹⁵⁾		9 R 3 V	German	M00
			English	M01
			French	M02
			Spanish	M03
			Further designs (optional)	
			Please add "-Z" to Article No. and specify Order code(s).	
			Enter the total insertion length in plain text description	Y01
			Reference probe G length of reference distance = 260 mm/10.24 inches (note blanking 450 mm required with min. probe 1 000 mm)	Y05
			Reference probe G length of reference distance = 500 mm/19.69 inches (note blanking 690 mm required with min. probe 1 250 mm)	Y06
			Reference probe G length of reference distance = 750 mm/29.53 inches (note blanking 940 mm required with min. probe 1 500 mm)	Y07
			Y02 rigid part is 100 mm, only applicable for cable versions	Y02
			Cleaning included certificate: oil, grease and silicone free	W01

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data

Order code

Further designs (optional), continued

Please add **"-Z"** to Article No. and specify Order code(s).

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

3.1-Inspection Certificate for instrument (EN 10204)²⁰⁾

C12

3.1-Inspection Certificate for material (EN 10204 NACE MR 0175)²⁰⁾

D07

3.1-Inspection Certificate for instrument with test data (EN 10204)²⁰⁾

C25

2.2-Factory certificate for material (EN 10204)²⁰⁾ Quality and test plan²⁰⁾

C15

C26

Dye penetration test, results confirmed via a 3.1 certificate/instrument (EN10204)²⁰⁾

C13

X-ray test + 3.1 certificate/instrument²⁰⁾

C14

Positive material identification test + 3.1 certificate/instrument²⁰⁾

C16

Roughness test + 3.1 certificate/instrument²⁰⁾

C18

Pressure test + 3.1 certificate/instrument²⁰⁾

C31

Helium leak test + 3.1 certificate/instrument²⁰⁾

C32

Pressure test according to Norsok + 3.1 certificate/instrument²⁰⁾

C61

5 point calibration certificate (min. length 1 000 mm)²⁰⁾²⁹⁾

C62

Certificate: Approval for steam boiler according to EN 12952-11, EN 12953-9³⁵⁾

C70

Operating Instructions

All literature is available to download for free, in a range of languages, at <http://www.siemens.com/processinstrumentation/documentation>

Accessories

Article No.

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

- 1) Available with Housing/Protection/Cable options E, F, Q, R, and T
 - 2) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01
 - 3) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0T, 1N, 1P, 2A, and 3A
 - 4) Available with Centering weight option B00 only
 - 5) Available with Centering weight options B01 ... B08 only
 - 6) Available with Approval options 0A, 0B, 0J, 0K, 0N, 0R, 0S, 1A, 1C, 1E, 1F, and 1G
 - 7) Available only with the same Version/Material, Process fitting/Material, and Length types
 - 8) Available with Version/Material options A, B, C, D, F, G
 - 9) Available with Rod Mounted options C01 and C02
 - 10) Available with Indicating/adjustment module options E00 and E01
 - 11) Available only with Housing/Protection/Cable options C, D, L, M
 - 12) Version/Material Hastelloy C22, temperature is limited to 400 °C (752 °F)
 - 13) Minimum probe length (Y01) is 1 250 mm (49 inch)
 - 14) Available with Housing/Protection Cable options E, F, Q, and R
 - 15) Not available with Y02
 - 16) Available with Housing/Protection/Cable options C, D, E, F, L, M, Q, and R
 - 17) Not available with Housing/Protection/Cable options N, P, and V
 - 18) Available with Electronic option 0 only
 - 19) Not available with Version/Material options E, F, and G
 - 20) Listed Certificates are not available with all configurations, please contact factory for more information
 - 22) Available with Supplementary electronic option A00, SIL electronics
 - 23) Available with Approval options 0A, 0H, 0K, 0R, 0S, 0U, 1A, 1C, 1D, 1E, 1F, 1H, 1N, 1P, and 1R
 - 24) Available with Housing/Protection/Cable options E, F, L, M and P
 - 25) Available with supplementary electronic option A00
 - 26) Available with Indicating/adjustment module options E00, E01
 - 27) Not available with Indicating/adjustment module option E02
 - 28) Available with Housing/Protection/Cable options D, F, M, and R
 - 29) Available with Version/Material A, B, C, D, and E
 - 30) Accuracy is application dependent, please consult factory
 - 31) Not available with Supplementary electronic option A01
 - 32) Available with Housing/Protection/Cable options W and Y
 - 33) Available with Housing/Protection/Cable options X and J
 - 34) Available with Electronics options 0, 2, and 5
 - 35) Available with Version/Material G and Electronics option 2
 - 36) Please pick Y05, Y06, or Y07 when you pick Probe/version material G
 - 37) Not available with Housing/Protection/Cable options A and B
 - 38) Available with Approval option 0A only
 - 39) Available with Version/Material options A, B, D, C, and L only
 - 40) Not available with Seal/Second line of defense/Process temperature option D
 - 41) Available with Seal/second line of defense/Process temperature options A, B, and C only
 - 42) Not available with Seal/second line of defense/Process temperature options A, B, C
 - 43) Only available Process fitting/material options that are 316L stainless steel
 - 44) Available with Housing/Protection/Cable options Q2A and Q2B
 - 45) Available with Housing/Protection/Cable option Q2B
 - 46) Not available with Housing/Protection/Cable options W, X, Y, J
 - 47) Not available with Housing/Protection/Cable options A, B, N, P, S, T, U, V, Q2A, and Q2B
 - 48) Available only with Housing/Protection/Cable options E, F, Q, R, X, and J
 - 49) Available only with Housing/Protection/Cable options D, F, M, R, W, X, Y, and J
 - 50) Available only with Electronics options 0, 2, 5, and 6
 - 51) Available only with Electronics options 0 and 2
 - 52) Available only with Electronics options 0 ... 4
- Note: Please consult manual for further details.

Selection and Ordering data	Article No.
SITRANS LG Remote Interface	7ML5840-
	0
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	
Approval	
For Ex-free area	0 A
ATEX II 1G, 2G, Ex ia IIC T6 Ga, Gb	0 C
ATEX II 2G, Ex d IIC T6 Gb ¹⁾	0 E
IEC Ex ia IIC T6 Ga, Gb	0 F
IEC Ex d IIC T6 Gb ¹⁾	0 G
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G	0 H
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	0 J
CSA (XP) Class I, Div. 1, Groups A, B, C, D ¹⁾	0 K
INMETRO Ex ia IIC T6 Ga, Gb	0 L
INMETRO Ex d IIC T6 Gb ¹⁾	0 M
Shipping Approval (DNV/GL) ⁶⁾	0 N
Electronics	
Digital (I ² C communication)	A
Housing	
Plastic ²⁾⁴⁾	0
Aluminum ³⁾⁵⁾	1
Stainless Steel (precision casting) ³⁾⁵⁾	2
Housing protection	
IP66/IP67 NEMA 4X	0
IP66/IP68 NEMA 6P (0.2 bar)	1
Cable entry	
M20 x 1.5/ Blind plug	3
1/2" NPT/ Blind plug	5
Display	
Without	A
Mounted	B
Mounting	
For wall mounting with Aluminum or stainless steel housing	A
For carrier rail and wall mounting with plastic housing	B
For carrier rail with Aluminum or stainless steel housing	C
For tube mounting (29 ... 60 mm) including mounting material	D
Certificates	
None	0
3.1 Certificate/Instrument with test data	1
Quality and Test plan	2


- 1) Available with Housing option 1 and 2 only
- 2) Available with Housing Protection option 0 only
- 3) Available with Housing Protection option 1 only
- 4) Available with Mounting options B and D only
- 5) Not available with Mounting option B
- 6) Shipping approval is only available with housing options plastic and aluminum 0 and 1


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⁾⁵⁾	0
LG250 ⁶⁾	1
LG260 ⁷⁾	2
LG270 ⁹⁾¹⁰⁾	3
Probe Type	
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
Process fitting	
Thread to 1 1/2 inch	0
Thread from 2 inch	1
Flange less than DN 50 or 2 inch	2
Flange greater or equal to DN 50 or 2 inch or hygienic fitting (not for safety ingold 25 x 46 mm)	3
Dimension centering weight	
Without	0
ø 40 mm/30 mm	1
ø 45 mm/30 mm (for 2 inch tubes)	2
ø 75 mm/30 mm (for 3 inch tubes)	3
ø 95 mm/30 mm (for 4 inch tubes)	4
ø 1.57 inch/1.18 inch (for 2 inch Schedule 160)	5
ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80)	6
ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40)	7
ø 3.74 inch/1.18 inch (for 4 inch Schedule 80)	8
Certificates	
Without	0
2.2 Material certificate	1
3.1 Material certificate	2

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.
SITRANS LG Replacement Probes	7ML5841-
	 0
Lengths	
<u>Rod ø 8 mm</u>	
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
<u>Rod ø 12 mm</u>	
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
<u>Rod ø 16 mm</u>	
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
<u>Cable Lengths ø 2 mm and 4 mm/316</u>	
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

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

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	Y01
Total length: Enter the total length of rigid part (range 100 ... 1 000 mm LG270 limited to 100 mm) (cable versions only)	Y02
1) Available with Dimension centering weight: Without option 0	
2) Available with Dimension centering weight: option 1 ... 8	
3) All Probe types are only available with corresponding Probe lengths	
4) Available with Probe type option AQ	
5) Available with Process fitting options 2 and 3	
6) Not available with Probe type options AQ and AW	
7) Available with Probe type options AE, AH, and AW	
8) Not available with Process fitting option 2	
9) Available with Probe type options AA, AC, AE, AG, and AW	
10) Available with Process fittings 0 and 3	
11) Not available with certificate options 1 and 2	

1) Only available with Version/Material options AA and AC

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

²⁾ Only available with Version/Material options AB, AD, AE, AH and AJ

³⁾ Only available with Version/Material options AE and AG

⁴⁾ Only available with Tube Diameter option 1 and LG240

⁵⁾ Only available with Tube Diameter options 2 and 3 and LG250

⁶⁾ Only available with Tube Diameter option 1 and LG250

⁷⁾ Only available with Tube diameter option 1 and LG260 or LG270

⁸⁾ Only available with Tube Diameter options 2 and 3 and LG260 or LG270

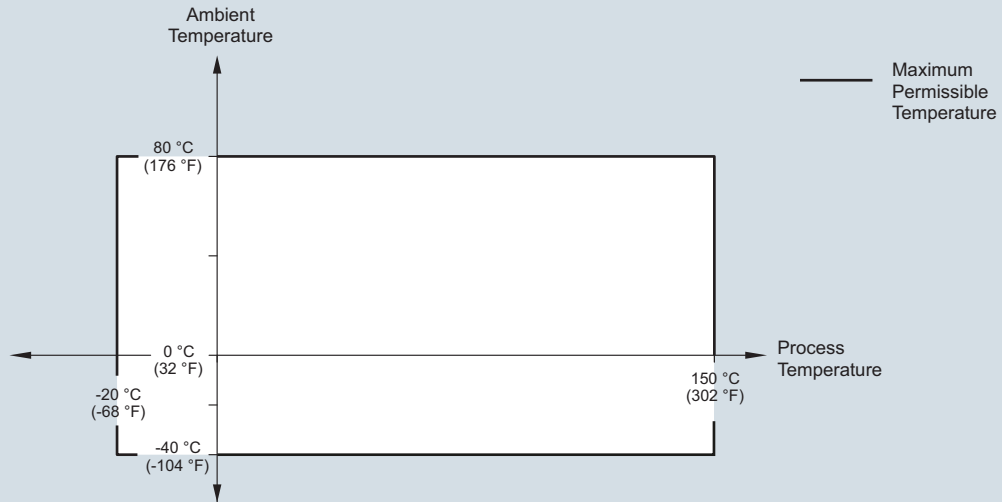
Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

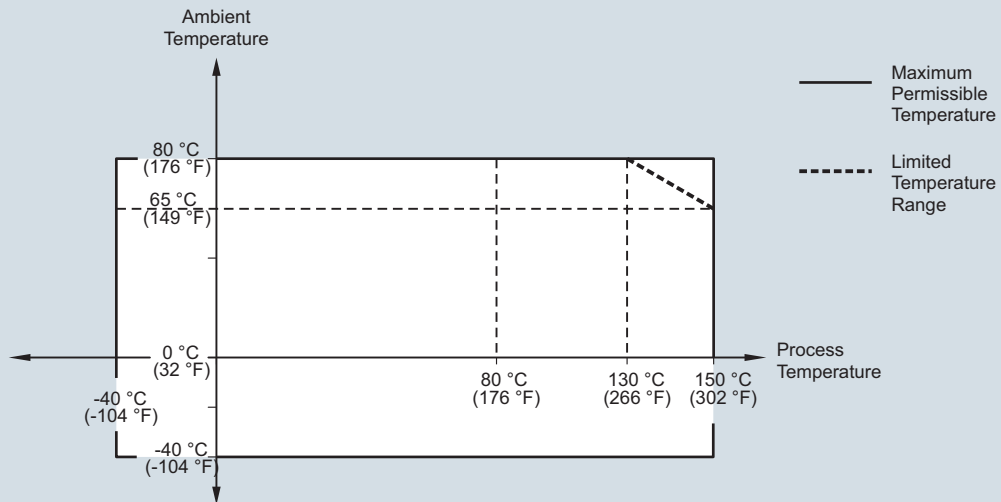
Characteristic curves

SITRANS LG240, Ambient temperature/process temperature, standard version

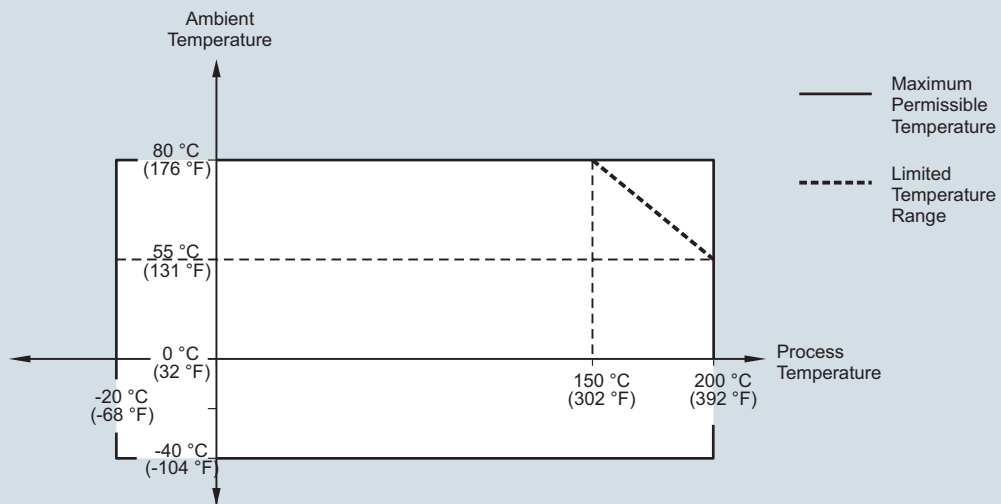


SITRANS LG240, ambient temperature/process temperature curve

SITRANS LG250, Ambient temperature/process temperature, standard version



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



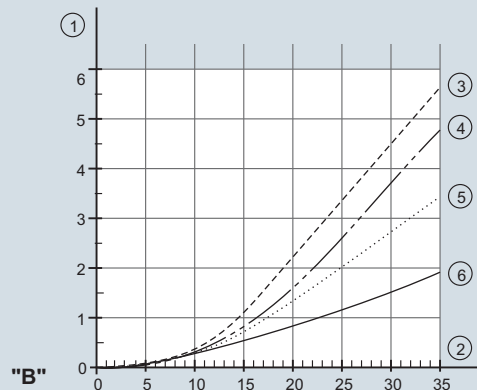
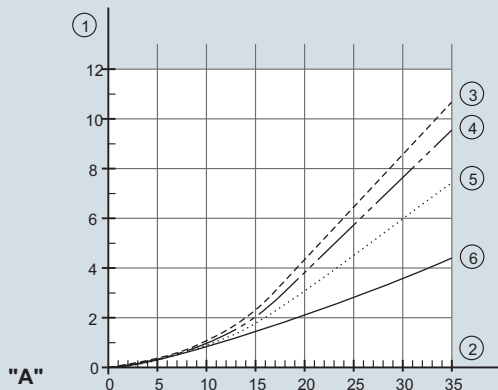
SITRANS LG250, ambient temperature/process temperature curves

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

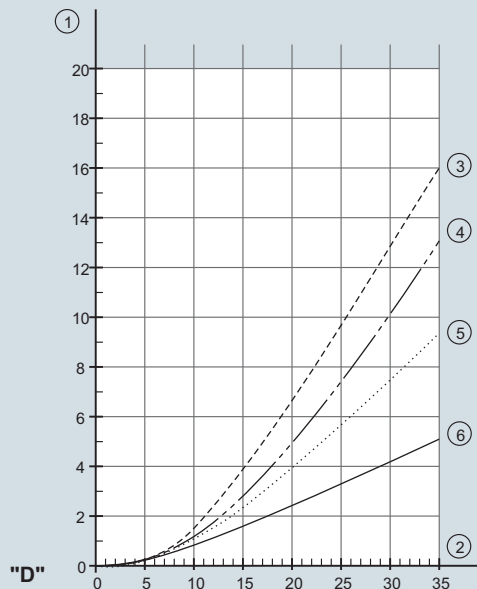
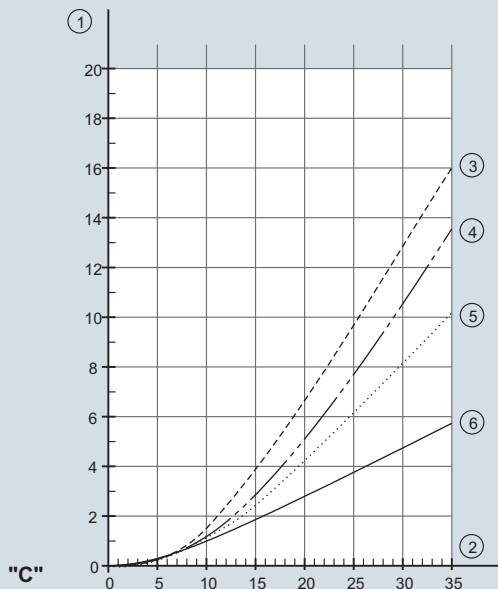
3. Vessel diameter 12 m (39.37 ft)

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)

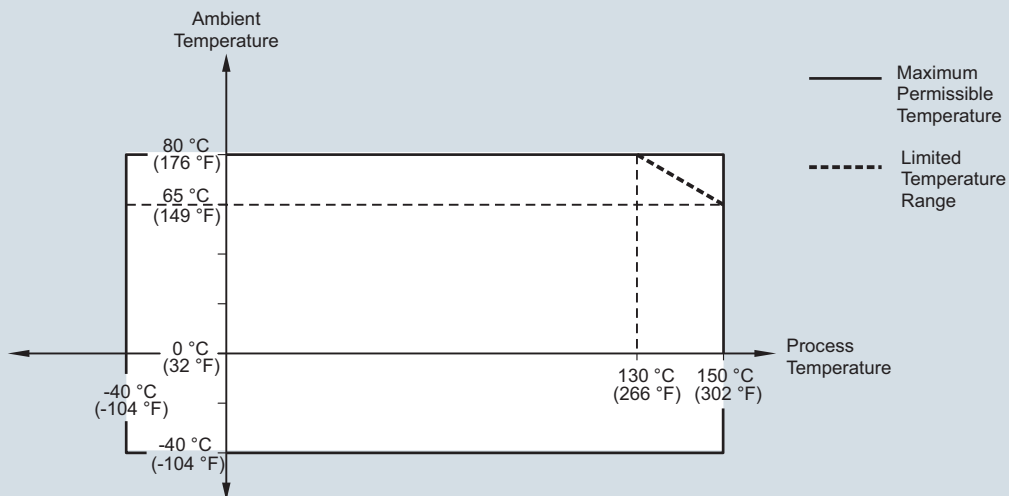
4. Vessel diameter 9 m (29.53 ft)

5. Vessel diameter 6 m (19.69 ft)

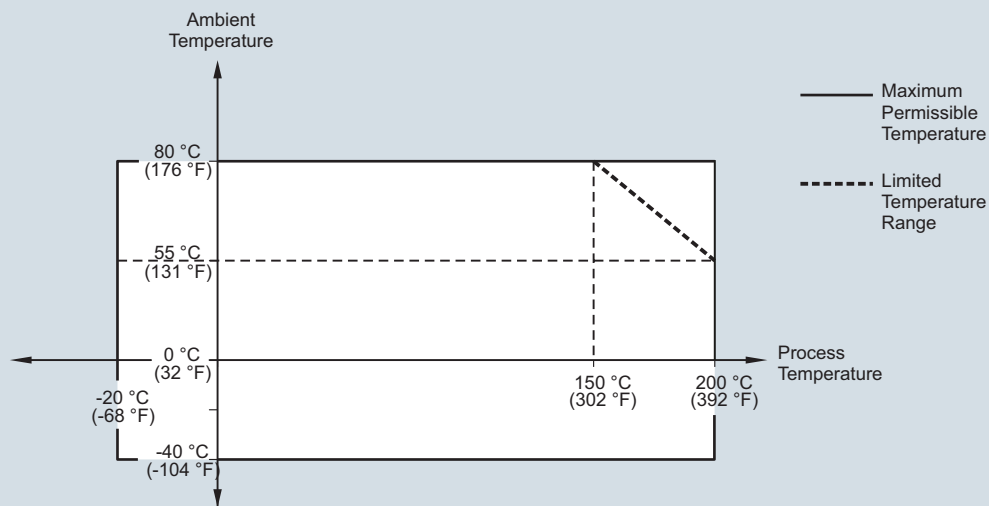
6. Vessel diameter 3 m (9.843 ft)

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)



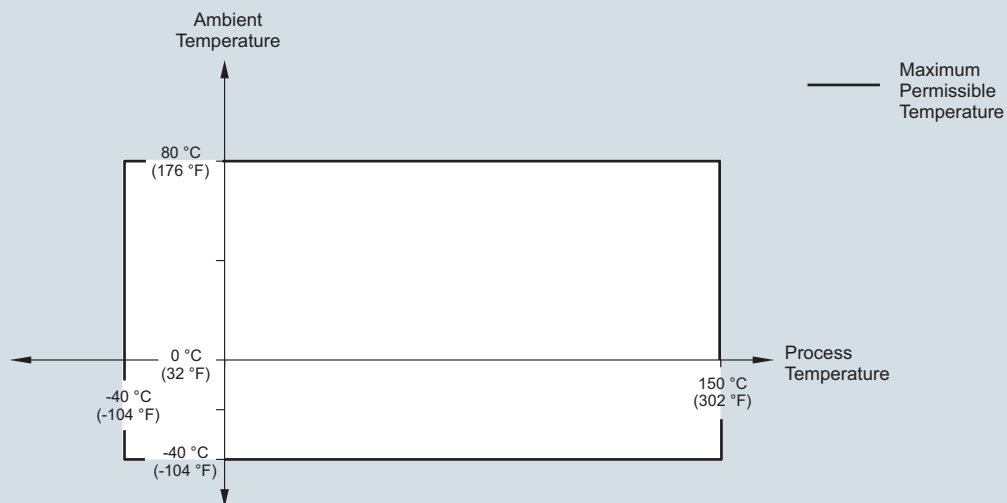
SITRANS LG260, ambient temperature/process temperature curves

Level Measurement

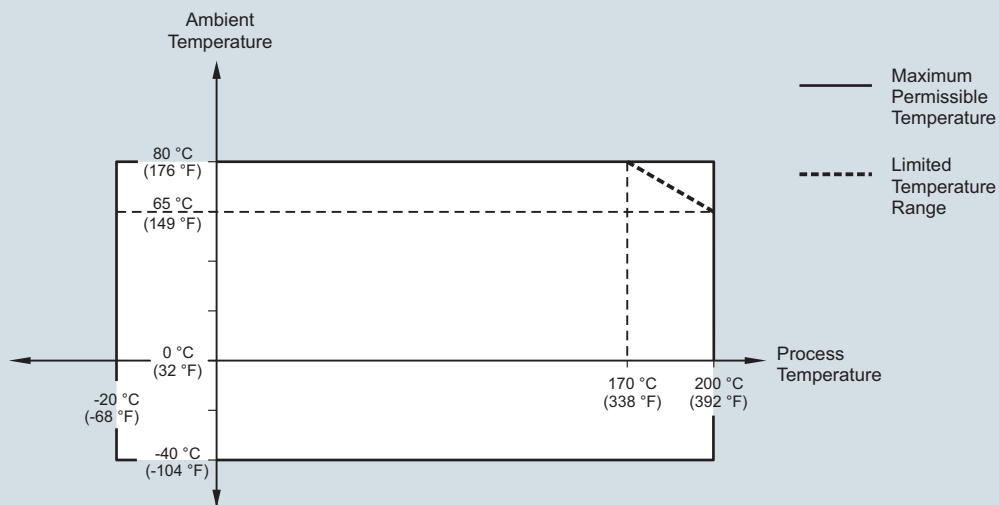
Continuous level measurement - Guided wave radar transmitters

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)

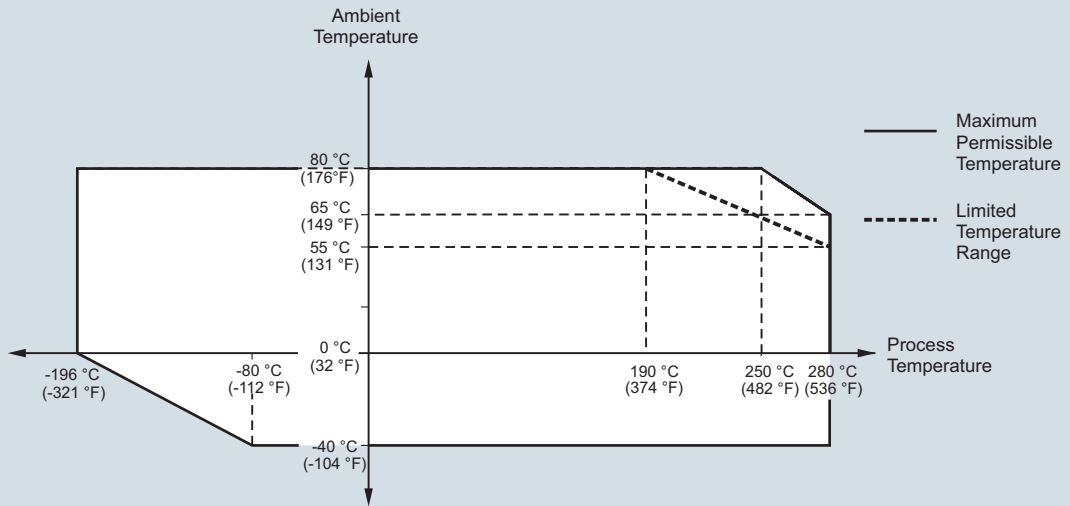


SITRANS LG260, Ambient temperature/process temperature, temperature adapter version
Cable version with \varnothing 6 mm (0.236 inch)
Cable version, PA coated with \varnothing 11 mm (0.433 inch)

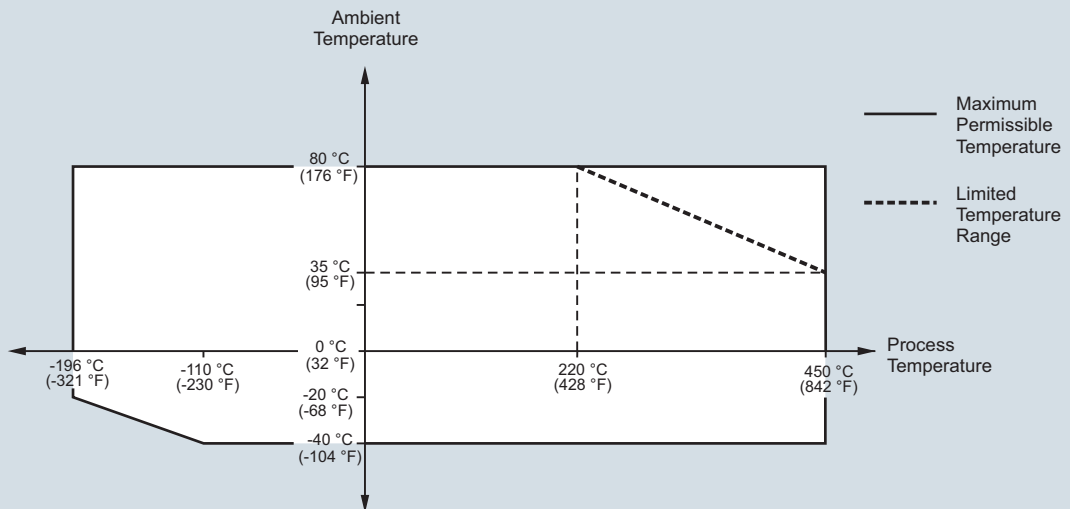


SITRANS LG260, ambient temperature/process temperature curves

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)



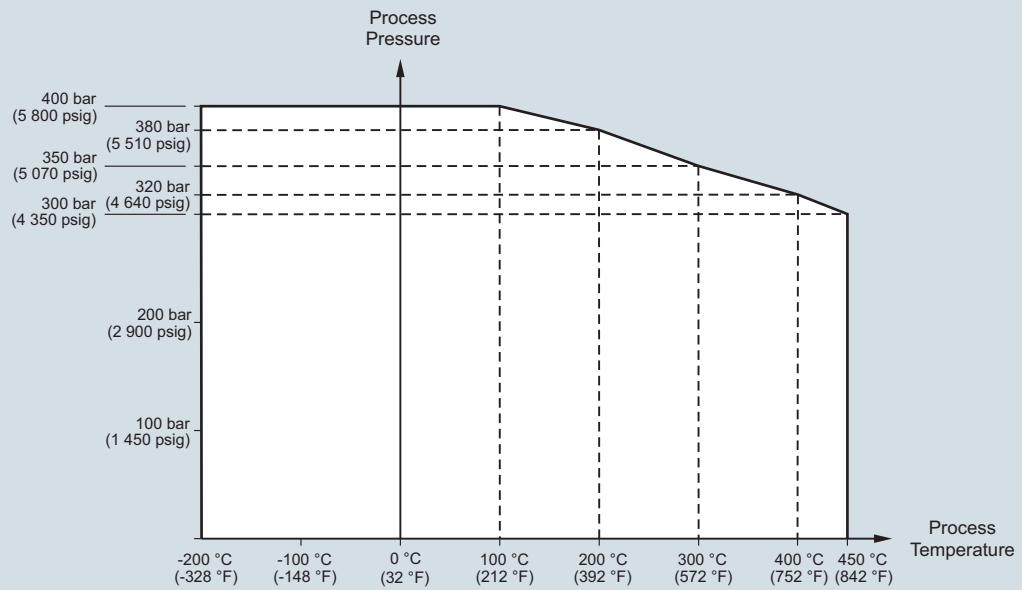
SITRANS LG270, ambient temperature/process temperature curves

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

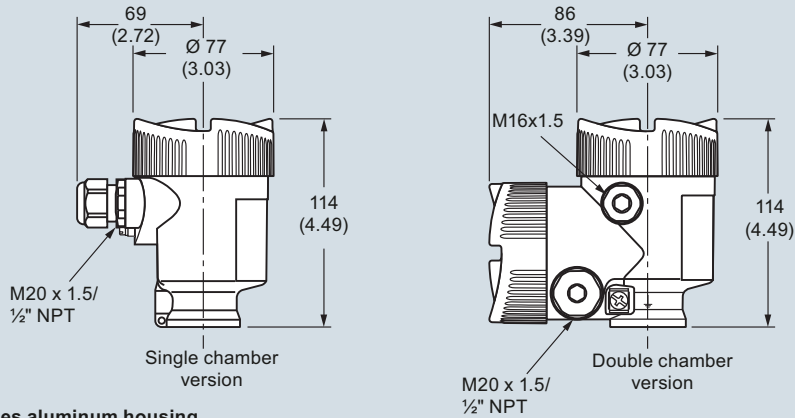
SITRANS LG270, Process pressure/process temperature (-196 ... +450 °C/-321 ... +842 °F version)



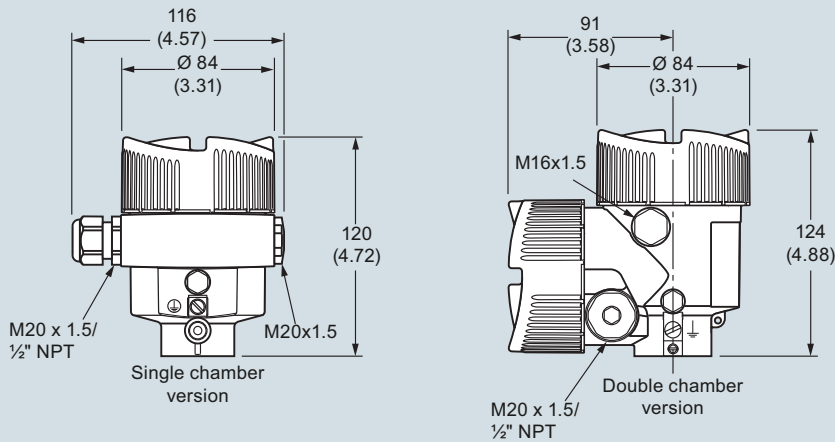
SITRANS LG270, process pressure/process temperature curve

Dimensional drawings

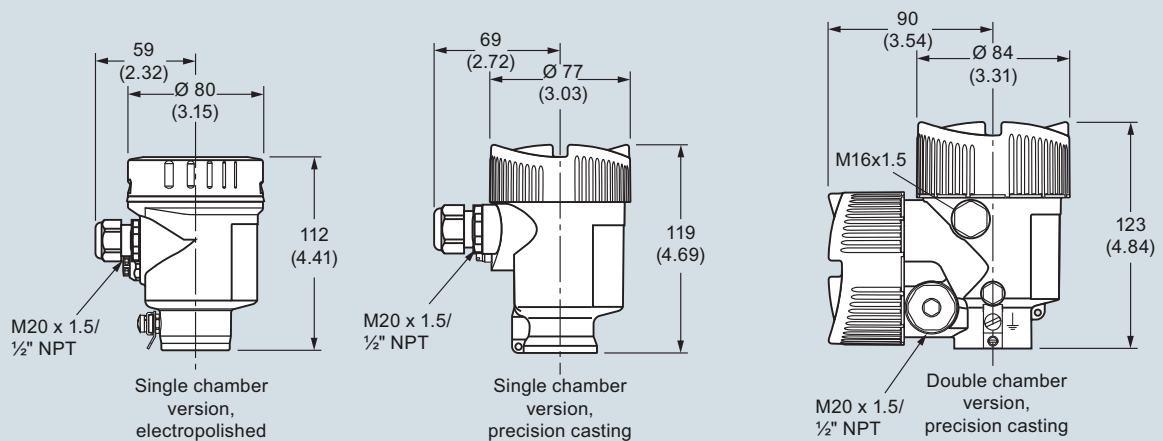
SITRANS LG Series plastic housing



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)

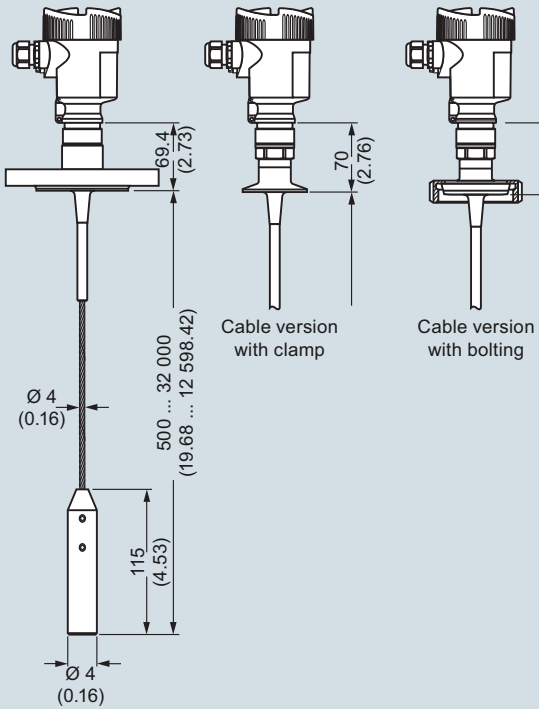
Level Measurement

Continuous level measurement - Guided wave radar transmitters

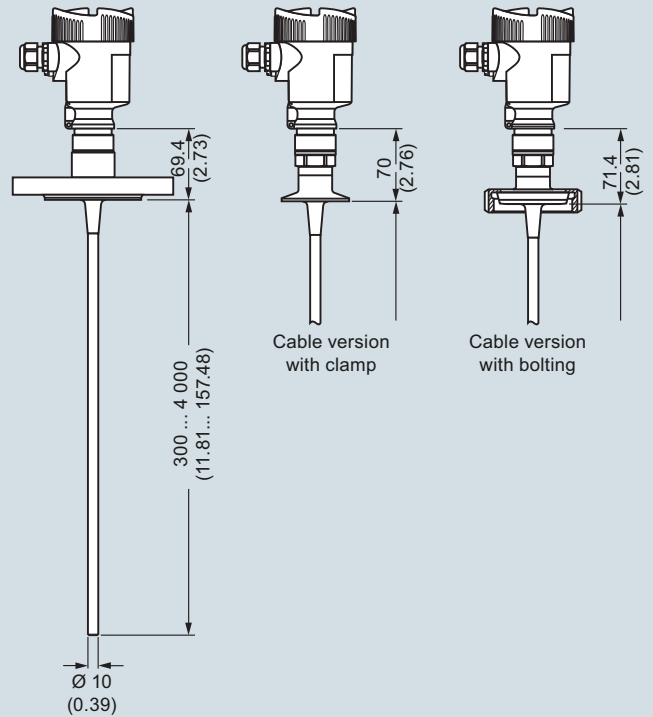
SITRANS LG series

SITRANS LG240

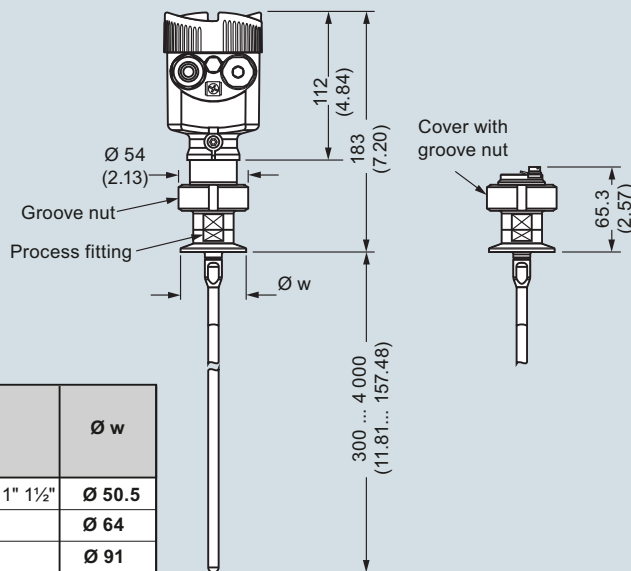
Cable version Ø 4 (0.157), PFA coated



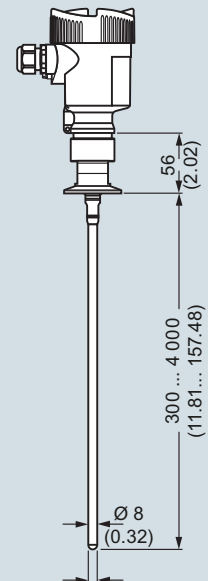
Rod version Ø 10 (0.394), PFA coated



Autoclaved version



Rod version Ø 8 (0.315), polished

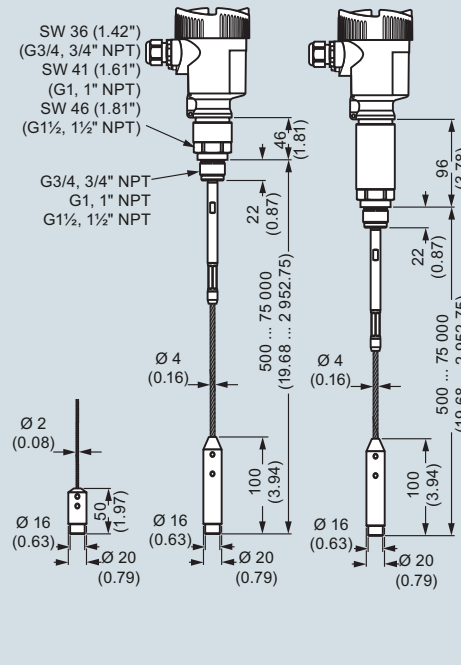


	Ø w
DIN DN 25 DN 32 DN 40/ 1" 1½"	Ø 50.5
DIN DN 50/ 2"	Ø 64
DIN DN 65/ 3"	Ø 91

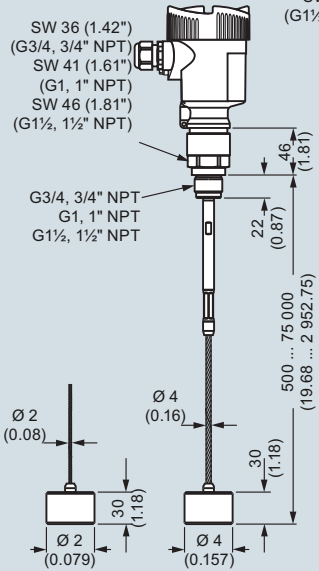
SITRANS LG240, dimensions in mm (inch)

SITRANS LG250

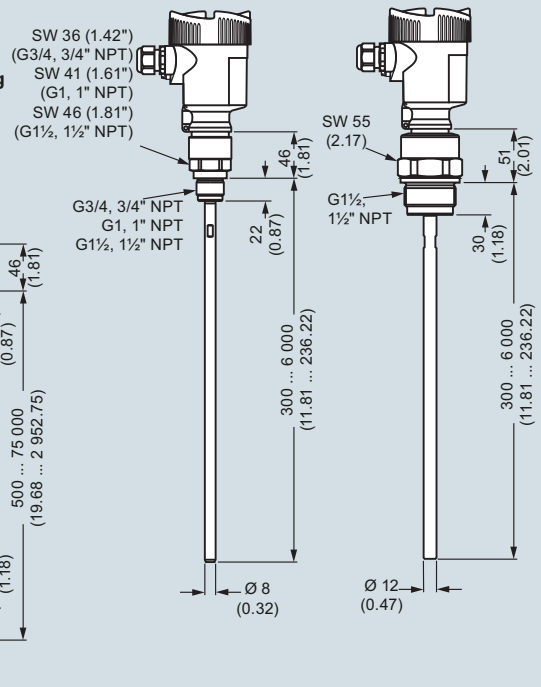
Cable version with gravity weight



Cable version with centering weight



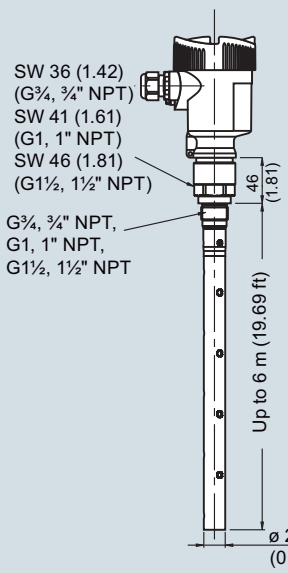
Rod version



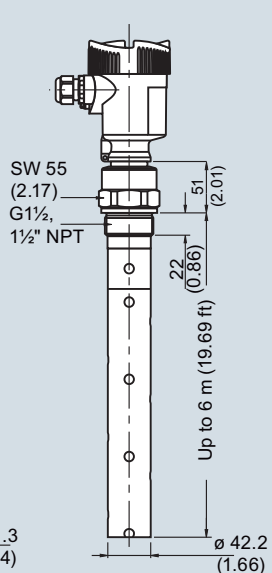
SITRANS LG250, dimensions in mm (inch)

SITRANS LG250, coax version

**Coaxial version
ø 21.3 (0.839)**



**Coaxial version
ø 42.2 (1.661)**



SITRANS LG250, dimensions in mm (inch)

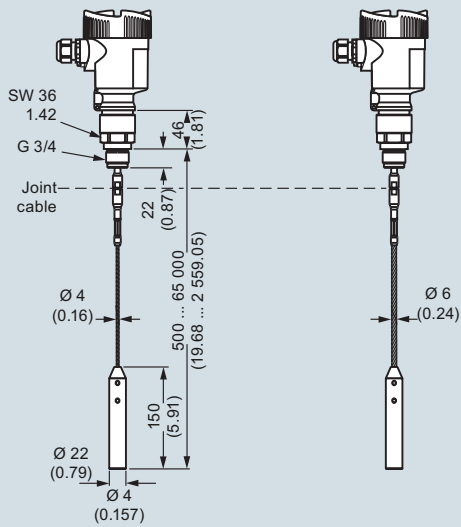
Level Measurement

Continuous level measurement - Guided wave radar transmitters

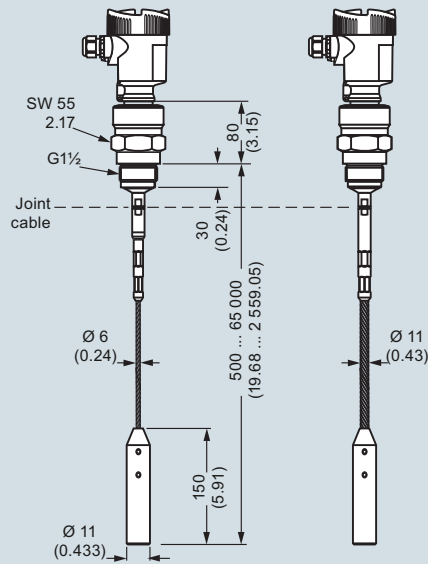
SITRANS LG series

SITRANS LG260

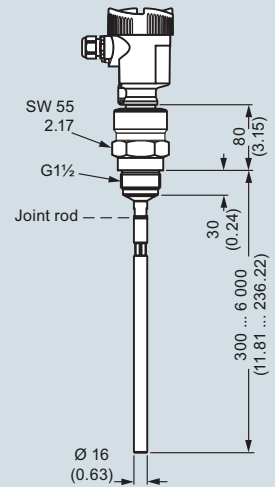
Cable version Ø 4 (0.157)/ Ø 6 (0.236)- PA coated



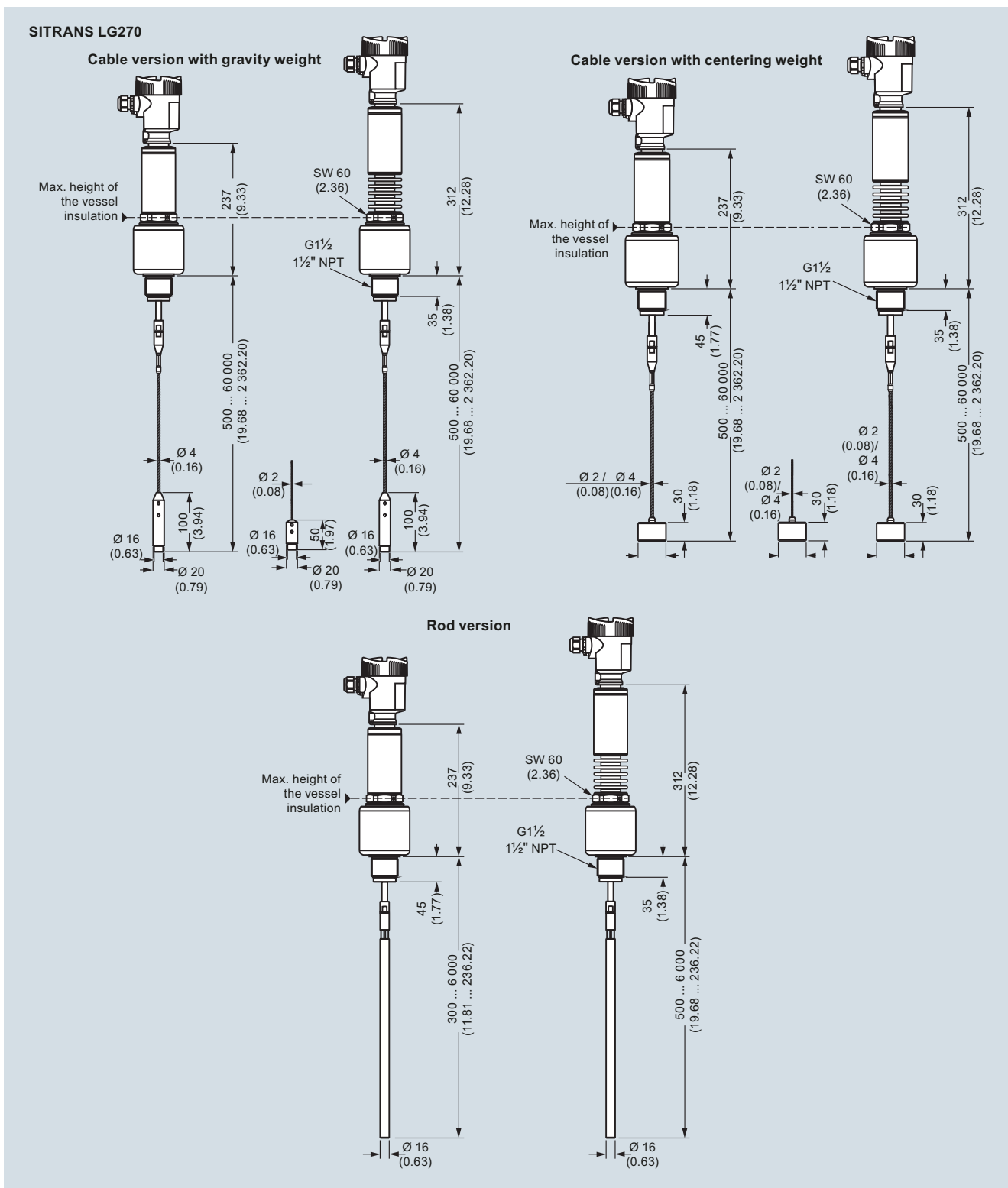
Cable version Ø 6 (0.236)/ Ø 11 (0.433)- PA coated



Rod version Ø 16 (0.63)



SITRANS LG260, dimensions in mm (inch)



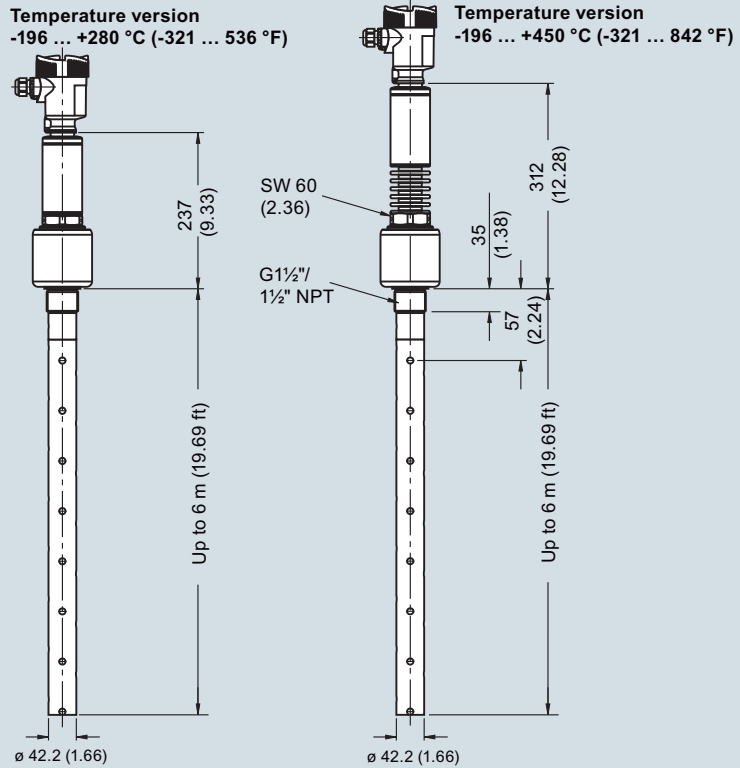
SITRANS LG270, dimensions in mm (inch)

Level Measurement

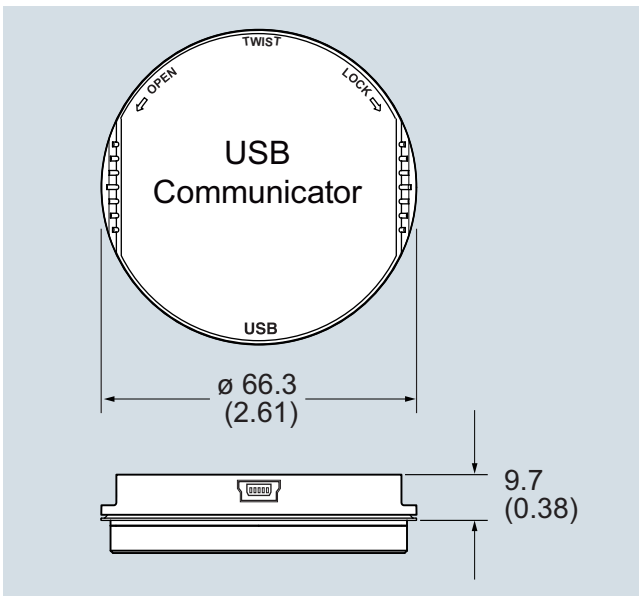
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

SITRANS LG270, coax version

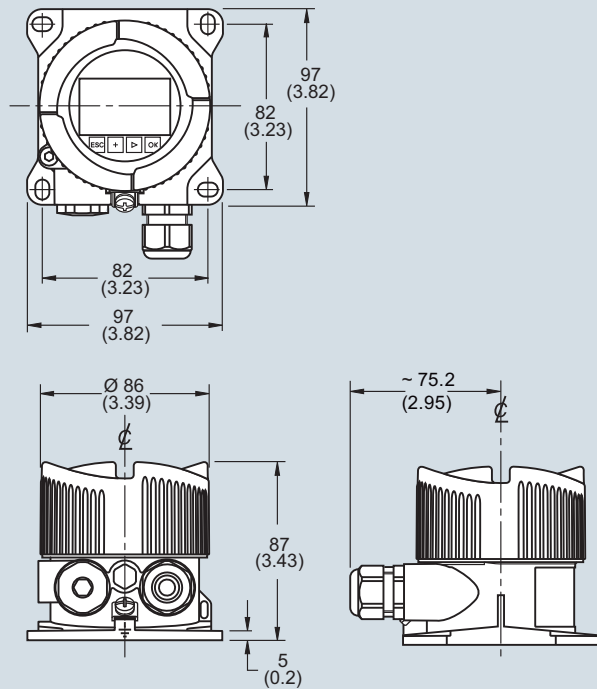


SITRANS LG270, dimensions in mm (inch)

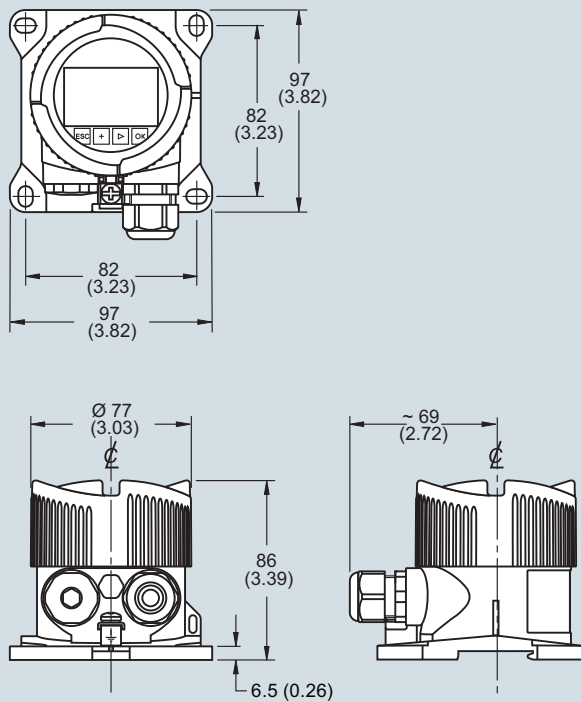


SITRANS LG USB Communicator, dimensions in mm (inch)

SITRANS LG remote interface, aluminum housing



SITRANS LG remote interface, plastic housing



SITRANS LG remote interface, dimensions in mm (inch)

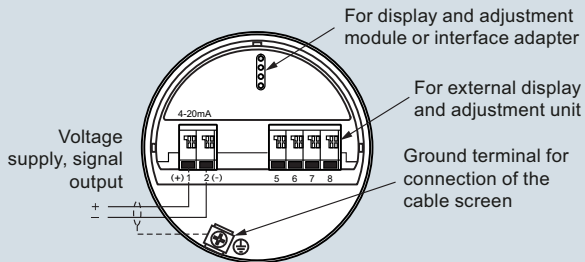
Level Measurement

Continuous level measurement - Guided wave radar transmitters

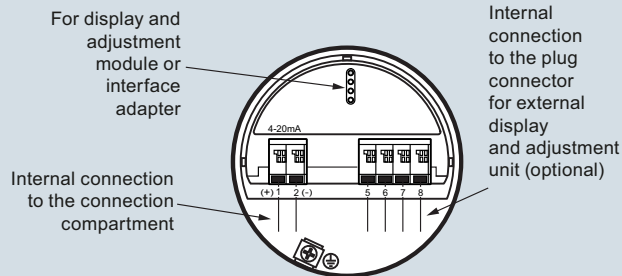
SITRANS LG series

Schematics

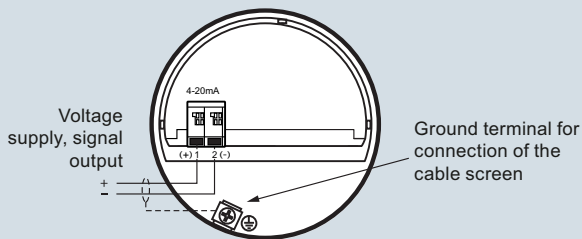
2-wire HART electronic option, electronics and connection compartment, single chamber housing



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



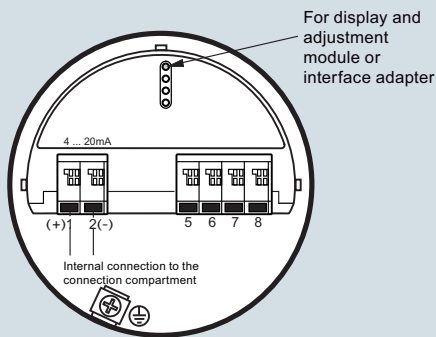
2-wire HART electronic option, connection compartment, Ex-d-ia double chamber housing



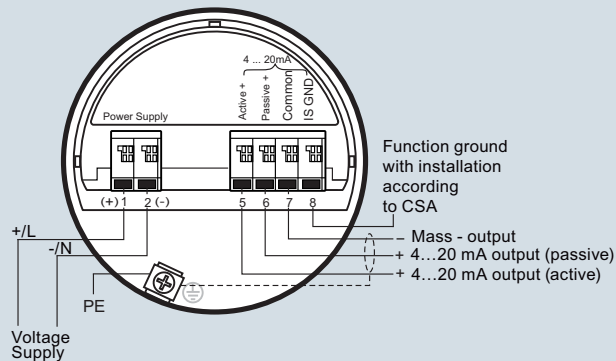
Note: All 2-wire HART connections and electronics are also available with SIL qualification.

SITRANS LG series connections

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



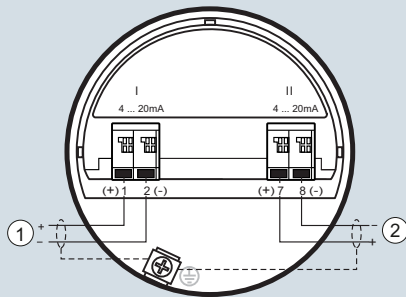
4-wire electronic option, connection compartment, double chamber housing with mains voltage



SITRANS LG series connections

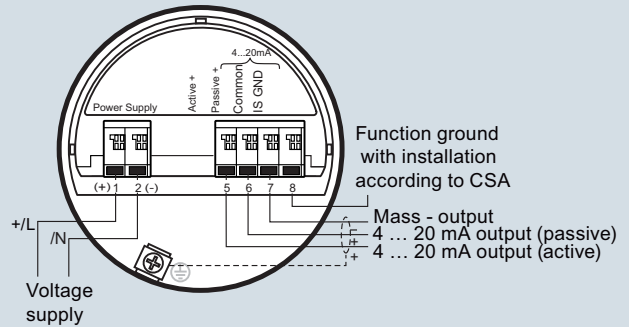
4

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



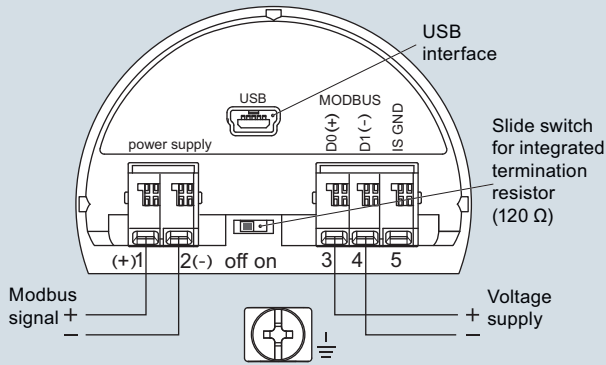
Function ground with installation according to CSA

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

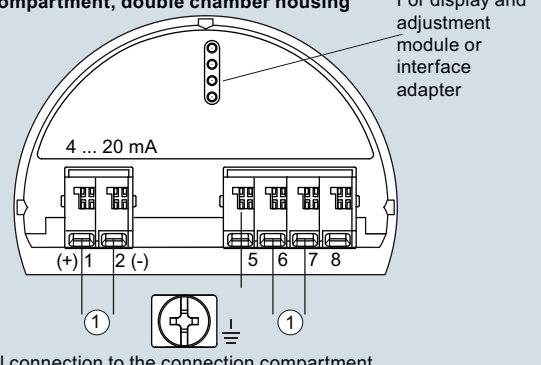
+/L /N
Voltage supply

SITRANS LG series connections

Modbus electronic option, connection compartment



Modbus electronic option, electronics compartment, double chamber housing

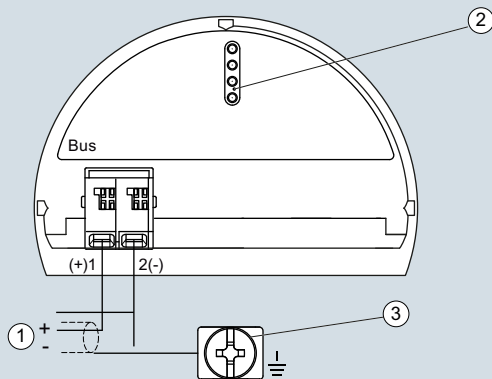


For display and adjustment module or interface adapter

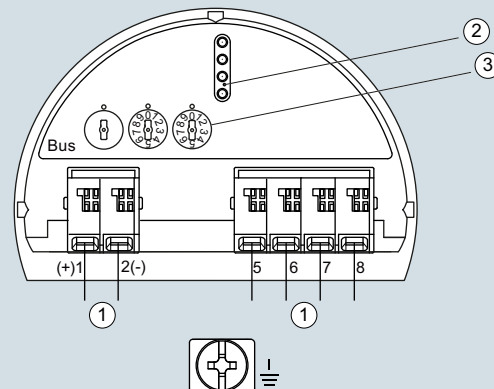
- ① Internal connection to the connection compartment

SITRANS LG series connections

PROFIBUS electronic option, connection compartment, double chamber housing



PROFIBUS electronic option, electronics 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

- 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

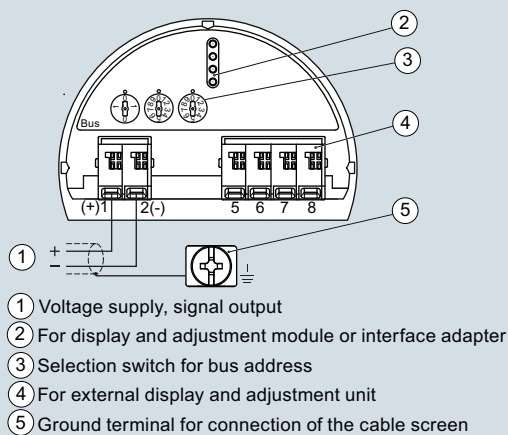
LG series connections

Level Measurement

Continuous level measurement - Guided wave radar transmitters

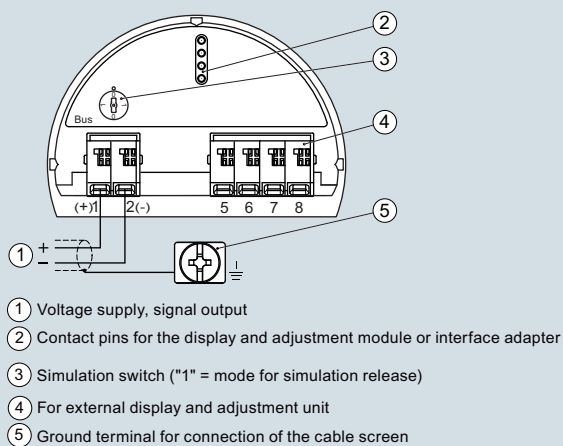
SITRANS LG series

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



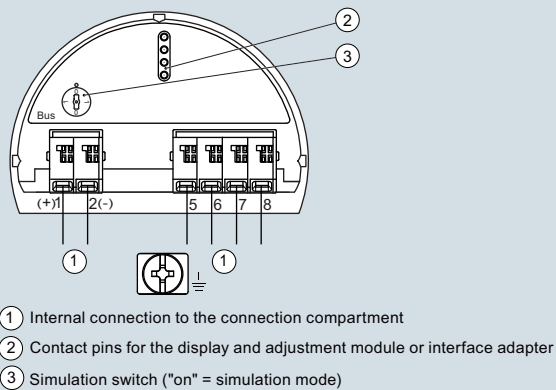
LG series connections

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 connections

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

