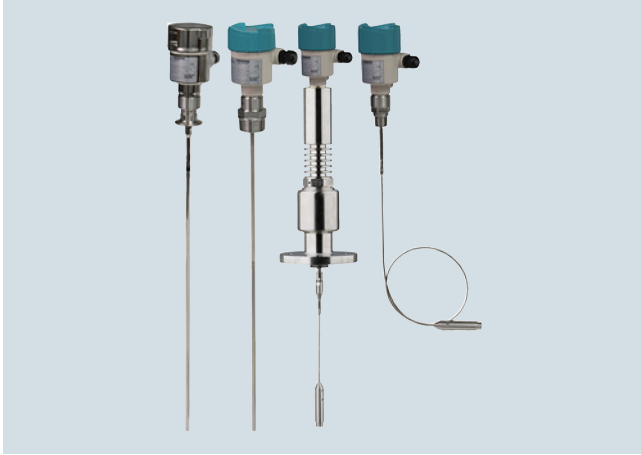


Overview



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

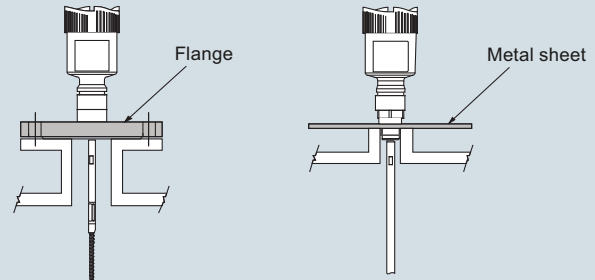
Application

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

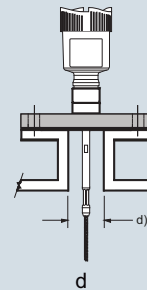
Mounting on nozzle



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

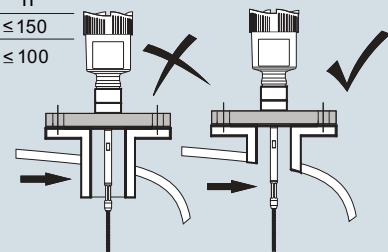
Mounting socket



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.

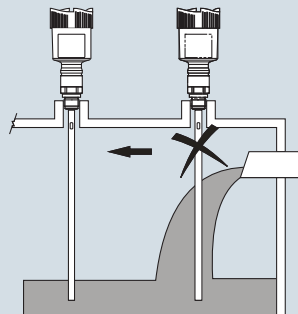
d	h
DN 40 ... DN 150	≤ 150
$> \text{DN } 150 \dots \text{DN } 200$	≤ 100

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.

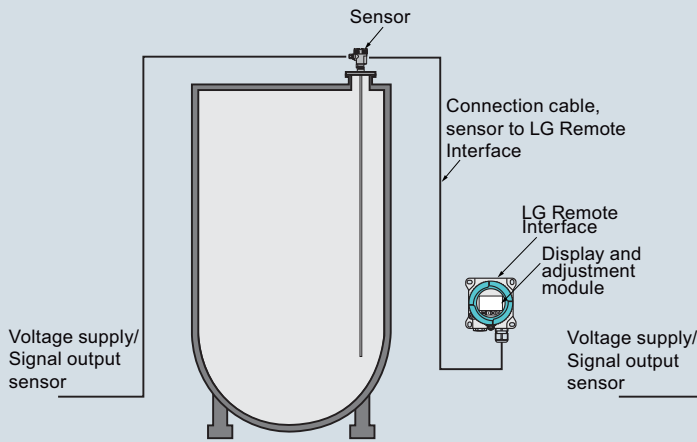
SITRANS LG Series installation

Level Measurement

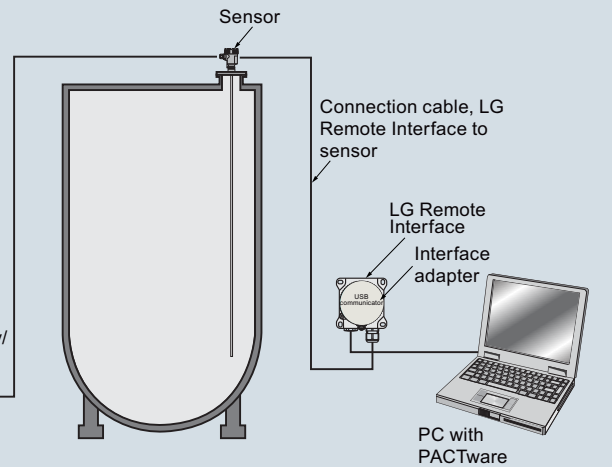
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Connection of SITRANS LG Remote Interface to the sensor



Connection of LG Remote Interface to the sensor and the PC



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)		Note: for measurement below 1.4 use probe end tracking.
Output		Process temperature range	-196 ... +450 °C (-321 ... +842 °F)
mA analog output with HART digital signal	4 ... 20 mA/HART (SIL optional)	Vessel pressure	-1 ... +400 bar (-100 ... +40 000 kPa)
Output range		Design	
• Analog	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)
• Start-up current	≤ 10 mA for 5 ms after switching on, ≤ 3.6 mA	Materials	
Diagnostic alarm	Failure signal current output (adjustable): last valid measured value, ≥ 21 mA, ≤ 3.6 mA	• Enclosure	• Plastic housing plastic PBT (Polyester) • Aluminum die-casting housing, aluminum die-casting AlSi10 mg, powder-coated- basis: polyester • Stainless steel housing, precision casting 316L • Stainless steel housing, electropolished 316L
Digital communication	HART Version 7 x and multidrop compatible		
Modbus	Modbus RTU, Modbus ASCII		
PROFIBUS PA	PROFIBUS PA profile 3.02		
FOUNDATION Fieldbus	FOUNDATION Fieldbus protocol Physical layer according to IEC 61158-2	• Degree of protection	• Type 4/NEMA 4, IP65 • Plastic housing IP66/IP67 • Aluminum and stainless steel housings are IP 66/68
Performance			
Non-linearity	Process reference conditions according to DIN EN 61298-1	• Cable inlet	2x M20 x 1.5 or 2 x ½" NPT
• Coaxial		Process connections	
• Single rod probes		• Pipe thread, cylindrical (ISO 228 T1)	G¾" A, G1" A, G1½" A according to DIN 3852-A
• Interface models	See manual for more details	• American pipe thread, conical (ASME B1.20.1)	¾" NPT, 1" NPT, 1½" NPT
Resolution and repeatability	Accuracy +/- 2 mm (0.08 inch)	• Flanged	DIN from DN 25, ANSI from 1"
Accuracy		• Hygienic	Hygienic fittings
• Coaxial/rod/cable probes	+/- 2 mm (0.08 inch) +/- 5 mm (0.197 inch)	Programming	
• Interface models	Note: Typical deviation, Interface measurement. See manual for full explanation.	Local	Four button, menu-driven data entry
Electromagnetic compatibility (check if needed)		Handheld communicator	Hart communicator
• Measuring cycle time	< 500 ms	PC	SIMATIC PDM, AMS, PACTware
• Step response time	≤ 3 s	Power	
• Temperature Effects	The measurement error from the process conditions is in the specified pressure and temperature range of below 1 %	2-wire Hart version	9.6 ... 35 V DC
Rated operating conditions		4-wire versions	9.6 ... 48 V DC, 20 ... 42 V AC, 50/60 Hz, and 90 ... 253 V AC, 50/60 Hz
Ambient temperature for enclosure	-40 ... +80 °C (-40 ... +176 °F)		
LCD readable temperature range	-40 ... +80 °C (-40 ... +176 °F) with display heated option	Modbus	8 ... 30 V DC
Location	Indoor/outdoor	PROFIBUS PA	9 ... 32 V DC
Installation category	II	FOUNDATION Fieldbus	9 ... 32 V DC
Pollution degree	2		Note: see manual for specific power based on ordered options
Relative Humidity	20 ... 85 %	Certificates and approvals	
		Hazardous approvals:	ATEX, FM, CSA, IECex Note: other regional approvals are available
		Hygienic approvals:	EHEDG
		Overfill protection	WHG, Vlarem
		Ship approval	ABS, CCS, GL, BV, LR

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Industries	SITRANS LG240 Food, Beverage and Pharmaceutical	SITRANS LG250 Chemical/HPI/Power/General	SITRANS LG260 Cement, power generation, food, processing, mineral processing, mining	SITRANS LG270 Chemical/HPI/Power/General
Applications	Hygienic and corrosive applications	Liquids, storage and process vessels with agitators, vaporous liquids, interface	Cement, fly ash, grain, coal, flour, plastics	Aggressive applications in liquids, storage and process vessels with agitators, vaporous liquids, high temperatures and pressures, low dielectric media
Range	32 m	75 m	60 m	60 m
Performance	+/- 2 mm	+/- 2 mm	+/- 2 mm	+/- 2 mm
Temperature	-40 ... +150 °C (-40 ... +302 °F)	-40 ... +200 °C (-40 ... +392 °F)	-40 ... +200 °C (-40 ... +392 °F)	-196 ... +450 °C (-320.8 ... +842 °F)
Communications	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare	• 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare

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⁾	0 A		Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/1.4435 (BN2) ⁴⁾	0 0	
Overfill protection (WHG; VLAREM) ²⁸⁾	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⁾	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⁾	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 ¹⁾¹²⁾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⁾	0 P		Clamp 1 1/2" 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	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⁾	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⁾	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⁾	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				
Probe version/Material					
Probe cable ø 4 mm (0.16 inch) with gravity weight/PFA ²⁾⁷⁾	A				
Probe exchangeable rod (ø 8 mm) / 1.4435 (BN2), can be autoclaved (Ra < 0.76 µm) ³⁾⁷⁾	B				
Probe exchangeable rod (ø 8 mm) / 1.4435 (BN2), (Ra < 0.76 µm) 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			Lengths		
Two-wire 4 ... 20mA/HART	0		<u>Rod ø 8 mm (0.31 inch)/1.4435 (Basle standard 300 ... 4 000 mm)</u>		
Four-wire Modbus ¹⁹⁾²⁰⁾²¹⁾²²⁾	1		300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾	0	
Two-wire 4 ... 20mA/HART with SIL qualification ¹⁸⁾	2		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁴⁾	1	
Four-wire 4 ... 20mA/HART; 90 ... 253V AC; 50/60 Hz ¹⁾⁸⁾¹⁰⁾	3		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾	2	
Four-wire 4 ... 20mA/HART; 9.6 ... 48V DC; 20 ... 42 V AC ¹⁾⁸⁾¹⁰⁾	4		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾	3	
PROFIBUS PA ²⁵⁾	5		<u>Rod ø 10 mm (0.24 inch)/PFA (300 ... 4 000 mm)</u>		
FOUNDATION Fieldbus	6		300 mm (11.81 inch) ¹⁴⁾	9 R 1 A	
Seal/Process temperature			500 mm (19.69 inch) ¹⁴⁾	9 R 1 B	
Without glass seal/-40 ... +150 °C (-40 ... +302 °F) ⁵⁾¹¹⁾	A		300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾	9 R 1 C	
FFKM (Kalrez 6221)/-20 ... 150 °C (-4 ... +302 °F)	B		1 001 ... 5 000 mm (39.41 ... 78.74 inch) ¹⁴⁾	9 R 1 D	
EPDM (Freudenberg 70 EPDM 291)/-20 ... 130 °C (-4 ... +266 °F)	C		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾	9 R 1 E	
Housing/Protection/Cable			3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾	9 R 1 F	
Plastic IP66/IP67 M20 x 1.5/blind stopper	A		<u>Cable ø 4 mm (0.16 inch)/PFA (500 ... 32 000 mm)</u>		
Plastic IP66/IP67 1/2" NPT/blind stopper	B		500 mm (9.69 inch)	9 R 1 G	
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	C		501 ... 1 000 mm (19.72 ... 39.37 inch)	9 R 1 H	
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	D		1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9 R 1 J	
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	E		2 001 ... 4 000 mm (78.78 ... 157.40 inch)	9 R 1 K	
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F		4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9 R 1 L	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	G		5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9 R 1 M	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	H		10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9 R 1 N	
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	J		15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9 R 1 P	
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	K		20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9 R 1 Q	
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper	L		25 001 ... 32 000 mm (984.29 ... 1 259.52 inch)	9 R 1 R	
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	M		<u>Exchange rod ø 8 mm (0.31 inch)/1.4435 (BN2), electropolished (Ra < 0.38 µm)</u>		
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	N		300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾	9 R 2 A	
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	P		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁴⁾	9 R 2 B	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	Q		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾	9 R 2 C	
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel	R		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾	9 R 2 D	
Aluminum single chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	W				
Aluminum double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	X				
Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	Y				
Stainless steel double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated	S				

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		This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library.	
Without	A00	Accessories	
Additional current output 4 ... 20 mA ¹⁾²³⁾	A01	SITRANS LG, GWR sensor Display Module	A5E34143449
Indicating/adjustment module		SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
Without	E00	SITRANS LG, USB communicator	A5E35192015
Mounted	E01	SITRANS LG, Mounting eye M12 x 20	PBD:51041448
Laterally mounted ¹⁾	E02	SITRANS LG, Mounting spring	PBD:51041449
Language of display		Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
German	L00	SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
English	L01	SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
French	L02	SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
Dutch	L03	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
Italian	L04	For applicable back up point level switch - see point level measurement section	
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 comma ",", for line break.	Y17		
Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a comma ",", for line break.	Y18		
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 + 3.1 certificate/instrument 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		

- 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 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 housings/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 options D, F, H, M, X, and S
- 25) Not available with supplementary electronic option A01
- 26) Available with Housing/protection options W and Y
- 27) Available with Housing/protection options X and S
- 28) Available with Electronics options 0, 2, and 5
- 29) Not available with Housing options A and B

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		Process fitting/Material		
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ⁽⁵³⁾	1 B		Thread G 3/4" (DIN 3852-A) PN 6/316L	0 0	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽¹⁾⁽²¹⁾⁽²³⁾	1 C		Thread 3/4" NPT (ASME B1.20.1) PN 6/316L	0 1	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁽²⁰⁾	1 D		Thread G 3/4" (DIN 3852-A) PN 40/316L	0 2	
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		Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	0 3	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽¹⁶⁾⁽⁵⁰⁾⁽⁵³⁾	1 F		Thread G 3/4" (DIN 3852-A) PN 100 / 316L ⁽⁴²⁾	0 4	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽¹⁾⁽²¹⁾⁽²³⁾	1 G		Thread 3/4" NPT (ASME B1.20.1) PN 100/316L ⁽⁴²⁾	0 5	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁽¹⁴⁾⁽²⁰⁾	1 H		Thread G 1" (DIN 3852-A) PN 40/316L	0 6	
NEPSI Ex ia IIC T6 ⁽¹⁶⁾⁽⁴⁶⁾⁽⁵³⁾	2 A		Thread 1" NPT (ASME B1.20.1) PN 40/316L	0 7	
NEPSI Ex ia IIC T6 + DIP A20/21 TA T ⁽⁴³⁾	2 B		Thread G 1" (DIN 3852-A) PN 100/316L ⁽⁴²⁾	0 8	
NEPSI Ex d ia IIC T6 ⁽⁴³⁾⁽⁴⁷⁾	2 C		Thread 1" NPT (ASME B1.20.1) PN 100/316L ⁽⁴²⁾	1 0	
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ⁽⁴³⁾⁽⁴⁷⁾	2 D		Thread G 1 1/2" (DIN 3852-A) PN 40/316L	1 1	
NEPSI Ex d IIC T6 ⁽⁴³⁾	2 E		Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	1 2	
NEPSI Ex d IIC T6 + DIP A20/21 TA T ⁽⁴³⁾	2 F		Thread G 1 1/2" (DIN 3852-A) PN 100/316L ⁽⁴²⁾	1 3	
NEPSI DIP A20/21 TA T ⁽⁴³⁾⁽⁴⁸⁾	2 G		Thread 1 1/2" NPT (ASME B1.20.1) PN 100/316L ⁽⁴²⁾	1 4	
INMETRO Ex ia IIC T6 ... T1 ⁽¹⁶⁾⁽⁴⁶⁾⁽⁵³⁾	3 A		Thread 2 NPT PN 40, ASME B1.20.1/316L ⁽³⁷⁾⁽³⁸⁾	1 5	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ⁽⁴³⁾	3 B		Flange DN 25 PN 40 Form C, DIN 2501/316L	2 0	
INMETRO Ex d ia IIC T6 ... T1 ⁽⁴³⁾⁽⁴⁷⁾	3 C		Flange DN 25 PN 40 Form F, DIN 2501/316L	2 1	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ⁽⁴³⁾⁽⁴⁷⁾	3 D		Flange DN 40 PN 40 Form C, DIN 2501/316L	2 2	
INMETRO Ex d IIC T6 ... T1 ⁽⁴³⁾⁽⁴⁶⁾	3 E		Flange DN 50 PN 40 Form C, DIN 2501/316L	2 3	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁽⁴³⁾	3 F		Flange DN 50 PN 40 form V13, DIN 2513/316L	2 4	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ⁽⁴³⁾⁽⁴⁸⁾	3 G		Flange DN 80 PN 40 Form C, DIN 2501/316L	2 5	
KOSHA Ex d IIC T6 ... T1 - KE ⁽¹⁴⁾⁽²⁰⁾⁽⁵²⁾	4 A		Flange DN 80 PN 40 Form V13, DIN 2501/316L	2 6	
			Flange DN 100 PN 16 Form C, DIN 2501/316L	2 7	
			Flange DN 100 PN 16 Form C, DIN 2501/316L	2 8	
			Flange DN 100 PN 40 Form C, DIN 2501/316L	3 0	

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 DN 100 PN 40 Form V13, DIN 2513/316L	3 1		Flange 4" 150 lb RF, ANSI B16.5/Duplex (1.4462)	7 6	
Flange DN 150 PN 16 Form C, DIN 2501/316L	3 2		Flange 4" 150 lb FF, ANSI B16.5/Duplex (1.4462)	7 7	
Flange DN 50 PN 40 EN 1092-1 Form B1/316L	3 3		Flange 4" 300 lb RF, ASME B16.5/Duplex (1.4462)	7 8	
Flange DN 80 PN 40 EN 1092-1 Form B1/316L	3 4		Flange 4" 600 lb RF, ASME B16.5/Duplex (1.4462)	8 0	
Flange 1" 150 lb RF, ANSI B16.5/316L	3 5		Thread 1 1/2" NPT PN 40, ASME B1.20.1/Alloy 400 (2.4360)	8 1	
Flange 1 1/2" 150 lb RF, ANSI B16.5/316L	3 6		Flange 2" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 2	
Flange 2" 150 lb RF, ANSI B16.5/316L	3 7		Flange 2" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) solid	8 3	
Flange 2" 300 lb RF, ANSI B16.5/316L	3 8		Flange 3" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 4	
Flange 3" 150 lb RF, ANSI B16.5/316L	4 0		Flange 3" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 5	
Flange 3" 300 lb RF, ANSI B16.5/316L	4 1		Flange 3" 300 lb RJF, ASME B16.5/Alloy 400 (2.4360)	8 6	
Flange 4" 150 lb RF, ANSI B16.5/316L	4 2		Flange 4" 150 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 7	
Flange 4" 300 lb RF, ANSI B16.5/316L	4 3		Flange 4" 300 lb RF, ASME B16.5/Alloy 400 (2.4360)	8 8	
Flange 6" 150 lb RF, ANSI B16.5/316L	4 4		Flange DN 25 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) solid	9 0	L 1 A
Flange 6" 300 lb RF, ANSI B16.5/316L	4 5		Flange DN 25 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) solid	9 0	L 1 B
Thread G 3/4" PN 40, DIN 3852-A / Alloy C22 (2.4602)	4 6		Flange DN 80 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) solid	9 0	L 1 C
Thread G 1" PN 40, DIN 3852-A / Alloy C22 (2.4602)	4 7		Flange 1" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 D
Thread G 1 1/2" PN 40, DIN 3852-A / Alloy C22 (2.4602)	4 8		Flange 1 1/2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 E
Thread 1 1/2" NPT PN 40, ASME B1.20.1/Alloy C22 (2.4602)	5 0		Flange 1 1/2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 F
Flange DN 50 PN 40 Form C, DIN 2501/316L with Alloy C22 (2.4602) coating	5 1		Flange 2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 G
Flange DN 50 PN 40 Form B1, EN 1092-1/316L with Alloy C22 (2.4602) coating	5 2		Flange 2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 H
Flange DN 80 PN 40 Form B1, EN 1092-1/316L with Alloy C22 (2.4602) coating	5 3		Flange 2" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 J
Flange DN 100 PN 40 Form B1, EN 1092-1/316L with Alloy C22 (2.4602) coating	5 4		Flange 2" 1 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 K
Flange DN 150 PN 16 Form B1, EN 1092-1/316L with Alloy C22 (2.4602) coating	5 5		Flange 3" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 L
Flange DN 200 PN 16 Form B1, EN 1092-1/316L with Alloy C22 (2.4602) coating	5 6		Flange 3" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 M
Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 7		Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	9 0	L 1 N
Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 8		Flange 4" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 P
Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 0		Flange 4" 150 lb FF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 Q
Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 1		Flange 4" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 R
Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 2		Flange 4" 300 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 S
Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 3		Flange 4" 300 lb LT, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 T
Flange 6" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	6 4		Flange 4" 600 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 U
Thread G 3/4" (DIN 3852-A) PN 40/Duplex 1.4462	6 5		Flange 6" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid	9 0	L 1 V
Flange DN 80 PN 40 Form F, DIN 2501/Duplex (1.4462)	6 6		Flange 2 1/2" 600 lb RF, Masoneilan/Alloy C22 (2.4602) solid	9 0	L 1 W
Flange DN 50 PN 40 Form B1, EN 1092-1/Duplex (1.4462)	6 7		Flange 3" 600 lb RF, ASME B16.5/316/316L ⁵⁵⁾	9 0	L 1 Y
Flange 1" 150 lb RF, ASME B16.5/Duplex (1.4462)	6 8				
Flange 1 1/2" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 0				
Flange 2" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 1				
Flange 2" 300 lb RF, ASME B16.5/Duplex (1.4462)	7 2				
Flange 2" 600 lb RF, ASME B16.5/Duplex (1.4462)	7 3				
Flange 3" 150 lb RF, ASME B16.5/Duplex (1.4462)	7 4				
Flange 3" 300 lb RF, ASME B16.5/Duplex (1.4462)	7 5				

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.			
Electronics							
Two-wire 4 ... 20mA/HART		0		Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		P	
Four-wire Modbus ⁽³³⁾⁽³⁵⁾⁽³⁶⁾⁽⁴⁹⁾		1		Stainless Steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper		Q	
Two-wire 4 ... 20mA/HART with SIL qualification ⁽²⁴⁾⁽³²⁾		2		Stainless Steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		R	
Four-wire 4 ... 20mA/HART; 90 ... 253 V AC; 50/60Hz ⁽¹⁾⁽¹⁵⁾⁽¹⁷⁾⁽⁴⁹⁾		3		Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		S	
Four-wire 4 ... 20mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ⁽¹⁾⁽¹⁵⁾⁽¹⁷⁾⁽⁴⁹⁾		4		Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		T	
PROFIBUS PA ⁽⁴³⁾⁽⁴⁹⁾		5		Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		U	
FOUNDATION Fieldbus ⁽⁴⁹⁾		6		Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel		V	
Seal/Second line of defense/ Process temperature				Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated		W	
FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁽⁶⁾		A		Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated		X	
FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)		B		Stainless steel single chamber (precision casting)/IP66/ IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated		Y	
FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)		C		Stainless steel double chamber / IP66/ IP68 (0.2 bar) M20 x 1.5 / Cable gland brass nickel-plated		J	
EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F)		D		Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Plug connector Harting HAN 7D (straight)		Z	Q 1 A
EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)		E		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
FFKM (Kalrez 6375)/with glass seal/-20 ... +200 °C (-4 ... +392 °F)		F		Stainless steel single chamber housing, electropolished/IP66/IP67 with cable outlet IP68		Z	Q 2 A
EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁽⁶⁾		G		Plastic single chamber housing /IP66/IP67 with cable outlet IP68		Z	Q 2 B
EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)		H		Lengths			
EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)		J		<u>Rod ø 8 mm/316L</u>			
Silicone FEP coated (A+P FEP-O-SEAL)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁽⁶⁾		K		300 ... 1 000 mm (11.81 ... 39.37 inch) ⁽²²⁾		0	
Silicone FEP coated (A+P FEP-O-SEAL)/without glass seal/-40 ... +150 °C (-40 ... +302 °F)		L		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽²²⁾		1	
Silicone FEP coated (A+P FEP-O-SEAL)/with glass seal/-40 ... +150 °C (-40 ... +302 °F)		M		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽²²⁾		2	
With borosilicate glass lead through/with glass seal/-60 ... +150 °C (-76 ... +302 °F)		N		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽²²⁾		3	
FFKM (Kalrez 6375)/without glass seal/-20 ... +200 °C (-4 ... +392 °F)		P		4 001 ... 5 000 mm (157.52 ... 196.85 inch) ⁽²²⁾		4	
FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... 80 °C (-40 ... +176 °F) ⁽⁶⁾		Q		5 001 ... 6 000 mm (196.89 ... 236.22 inch) ⁽²²⁾		5	
Housing/Protection/Cable				<u>Rod ø 8 mm/Duplex</u>			
Plastic IP66/IP67 M20 x 1.5/blind stopper		A		300 ... 1 000 mm (11.81 ... 39.37 inch) ⁽²²⁾		9	R 1 A
Plastic IP66/IP67 1/2" NPT/blind stopper		B		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽²²⁾		9	R 1 B
Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper		G		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽²²⁾		9	R 1 C
Plastic 2-chamber/IP66/IP67 /1/2" NPT/blind stopper		H		3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽²²⁾		9	R 1 D
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper		C		4 001 ... 5 000 mm (157.52 ... 196.85 inch) ⁽²²⁾		9	R 1 E
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		D		5 001 ... 6 000 mm (196.89 ... 236.22 inch) ⁽²²⁾		9	R 1 F
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5 / Blind stopper		E		<u>Rod ø 8 mm or ø 12 mm / C22</u>			
Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		F		300 ... 1 000 mm (11.81 ... 39.37 inch) ⁽²²⁾		9	R 1 J
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper		L		1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽²²⁾		9	R 1 K
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper		M		2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽²²⁾		9	R 1 L
Stainless Steel (electropolished) 316L/IP68 (0.2 bar) M20 x 1.5/Blind stopper		N		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
				<u>Rod ø 12 mm/316L</u>			
				300 ... 1 000 mm (11.81 ... 39.37 inch) ⁽²²⁾		9	R 2 A
				1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽²²⁾		9	R 2 B
				2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽²²⁾		9	R 2 C
				3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽²²⁾		9	R 2 D

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS LG250	7ML5881-		SITRANS LG250	7ML5881-	
A guided wave radar sensor for continuous level and interface measurement of liquids.			A guided wave radar sensor for continuous level and interface measurement of liquids.		
<u>Cable lengths ø 2 or 4 mm/316L</u>			<u>Coax ø 21.3 mm/316L</u>		
501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 2 E	300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9	R 3 A
1 000 ... 5 000 mm (39.37 ... 196.85 inch)	9	R 2 F	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾	9	R 3 B
5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 2 G	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9	R 3 C
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 2 H	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9	R 3 D
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 2 J	4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾	9	R 3 E
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 2 K	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾	9	R 3 F
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9	R 2 L	<u>Coax ø 21.3 mm/C22</u>		
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9	R 2 M	300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9	R 5 A
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9	R 2 N	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾	9	R 5 B
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9	R 2 P	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9	R 5 C
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9	R 2 Q	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9	R 5 D
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9	R 2 R	4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾	9	R 5 E
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9	R 2 S	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾	9	R 5 F
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	9	R 2 T	<u>Coax ø 42.2 mm/316L</u>		
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	9	R 2 U	300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9	R 3 G
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)	9	R 2 V	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾	9	R 3 H
<u>Cable Lengths ø 2 mm or ø 4 mm/C22</u>			2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9	R 3 J
501 ... 1 000 mm (19.72 ... 39.37 inch)	9	R 4 A	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9	R 3 K
1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9	R 4 B	4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾	9	R 3 L
5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9	R 4 C	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾	9	R 3 M
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9	R 4 D	<u>Coax ø 42.2 mm/C22</u>		
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9	R 4 E	300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾	9	R 5 G
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9	R 4 F	1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾	9	R 5 H
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9	R 4 G	2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾	9	R 5 J
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9	R 4 H	3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾	9	R 5 K
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9	R 4 J	4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾	9	R 5 L
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9	R 4 K	5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾	9	R 5 M
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			

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code	Selection and Ordering data	Order code
Further designs (mandatory)		Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).		Please add "-Z" to Article No. and specify Order code(s).	
Supplementary electronics		Enter the total insertion length in plain text description	Y01
Without	A00	Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm	Y02
Additional current output 4 ... 20 mA ¹⁾³⁹⁾	A01	Remote electronic cable lengths: 2 m (6.6 ft). Only available with housing options Q2A and Q2B	Y10
Dimensions centering weight (diameter/height)		Remote electronic cable lengths: 5 m (16.4 ft). Only available with housing options Q2A and Q2B	Y11
Without	B00	Remote electronic cable lengths: 10 m (32.8 ft). Only available with housing options Q2A and Q2B	Y12
ø 40/30 mm	B01	Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma ", " for line break.	Y17
ø 45/30 mm (for 2 inch tubes)	B02	Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma ", " for line break.	Y18
ø 75/30 mm (for 3 inch tubes)	B03	3.1-Inspection Certificate for instrument (EN 10204) ³⁰⁾	C12
ø 95/30 mm (for 4 inch tubes)	B04	3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ³⁰⁾	D07
ø 40 mm/30 mm	B05	3.1-Inspection Certificate for instrument with test data (EN 10204) ³⁰⁾	C25
ø 1.57/1.18 inch (for 2 inch Schedule 160)	B06	2.2-Factory certificate for material (EN 10204) ³⁰⁾	C15
ø 45 mm/30 mm (for 2 inch tubes)	B07	Quality and test plan ³⁰⁾	C26
ø 1.77/1.18 inch (for 2 inch Schedule 40/80)	B08	Dye penetration test + 3.1 certificate/instrument ³⁰⁾	C13
ø 75 mm/30 mm (for 3 inch tubes)		X-ray test + 3.1 certificate/instrument ³⁰⁾	C14
ø 2.95/1.18 inch (for 3 inch Schedule 10/40)		Positive material identification test + 3.1 certificate/instrument ³⁰⁾	C16
ø 95 mm/30 mm (for 4 inch tubes)		Roughness test + 3.1 certificate/instrument ³⁰⁾	C18
ø 3.74/1.18 inch (for 4 inch Schedule 80)		Pressure test + 3.1 certificate/instrument ³⁰⁾	C31
Rod mounted		Helium leak test + 3.1 certificate/instrument ³⁰⁾	C32
Without Rod, applicable for coax or cable probe types only	C00	Pressure test according to Norsok + 3.1 certificate/instrument ³⁰⁾	C61
Mounted	C01	5 point calibration certificate (min. length 1 000 mm) ³⁰⁾⁴¹⁾	C62
Not mounted	C02		
Indicating/adjustment module		Operating Instructions	
Without	E00	All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Mounted	E01	This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library.	
Laterally mounted ¹⁾	E02		
Language of display		Accessories	Article No.
German	L00	SITRANS LG, GWR sensor Display Module	A5E34143449
English	L01	SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
French	L02	SITRANS LG, USB communicator	A5E35192015
Dutch	L03	SITRANS LG, Mounting eye M12 x 20	PBD:51041448
Italian	L04	SITRANS LG, Mounting spring	PBD:51041449
Spanish	L05	Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
Portuguese	L06	SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
Russian	L07	SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
Chinese	L08	SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
Japanese	L09	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
Operating instructions		For applicable back up point level switch - see point level measurement section	
German	M00		
English	M01		
French	M02		
Spanish	M03		

- 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, and 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, and 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 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 options W and Y
- 45) Available with Housing/protection 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

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⁾²¹⁾²²⁾	0 A		INMETRO Ex d ia IIC T6 ... T1	3 C	
Shipping approval ⁹⁾¹⁰⁾²¹⁾	0 B		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb	3 D	
Overfill protection (WHG; VLAREM) ²⁶⁾	0 C		INMETRO Ex d IIC T6 ... T1 ²⁷⁾	3 E	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁴⁾¹²⁾²¹⁾²²⁾	0 E		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 + Overfill (WHG; VLAREM) ⁴⁾¹²⁾²¹⁾²²⁾²⁶⁾	0 F		INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db	3 G	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁹⁾²¹⁾	0 G		KOSHA Ex d IIC T6 ... T1 – KE ³⁰⁾	4 A	
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		Probe version/Material		
ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁷⁾¹²⁾	0 J		Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316 ²⁸⁾	A	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ¹⁷⁾⁹⁾¹⁰⁾	0 L		Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316 ²⁾²⁸⁾	B	
ATEX II 1/2G, 2G Ex d ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁷⁾⁸⁾¹²⁾²⁴⁾	0 M		Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/PA coated	C	
ATEX II 1/2G, 2G Ex d IIC T6 ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	0 N		Probe exchangeable cable ø 11 mm (0.43 inch) with gravity weight/PA coated	D	
ATEX II 1/2G, 2G Ex d IIC + shipping approval ⁸⁾⁹⁾¹⁰⁾¹¹⁾²¹⁾²⁵⁾²⁷⁾	0 Q		Probe exchangeable rod ø 16 mm (0.63 inch)/316L ²⁾⁶⁾²⁸⁾	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		Process fitting/Material		
ATEX II 1D, 1/2D, 2D IP6x T ⁸⁾¹¹⁾¹²⁾²¹⁾²³⁾²⁴⁾²⁵⁾	0 S		Thread G 3/4" (DIN 3852-A) PN 40/316L	0 0	
IEC Ex ia IIC T6 ⁴⁾¹²⁾²¹⁾²²⁾	0 T		Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	0 1	
IEC Ex ia IIC T6 + IEC IP6x T tD ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	0 U		Thread G 1" (DIN 3852-A) PN 40/316L	0 2	
IEC Ex d ia IIC T6 ¹⁷⁾¹²⁾	1 A		Thread 1" NPT (ASME B1.20.1) PN 40/316L	0 3	
IEC Ex d ia IIC T6 + IEC IP6x T tD ⁷⁾⁸⁾¹²⁾²¹⁾	1 B		Thread G 1 1/2" (DIN 3852-A) PN 40/316L	0 4	
IEC Ex d IIC T6 ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	1 C		Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	0 5	
IEC Ex d IIC T6 + IEC IP6x T tD ⁸⁾¹¹⁾¹²⁾²¹⁾²³⁾²⁵⁾²⁷⁾	1 D		Thread G 2" (DIN 3852-A) PN 40/316L	0 6	
FM (NI) Class I, Div. 2, Groups A, B, C, D ¹²⁾²¹⁾²³⁾	1 F		Flange DN 50 PN 40 Form C, DIN 2501/316L	1 0	
FM (NI) Class I, Div. 2, Groups A, B, C, D + Ship approval ⁹⁾¹⁰⁾²¹⁾	1 G		Flange DN 80 PN 40 Form C, DIN 2501/316L	1 2	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ¹²⁾²¹⁾	1 H		Flange DN 100 PN 16 Form C, DIN 2501/316L	1 3	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ⁹⁾¹⁰⁾²¹⁾	1 J		Flange DN 100 PN 40 Form C, DIN 2501/316L	1 4	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁷⁾¹²⁾	1 K		Flange DN 150 PN 16 Form C, DIN 2501/316L	1 5	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ¹⁷⁾⁹⁾¹⁰⁾	1 L		Flange DN 50 PN 40 EN 1092-1 Form B1/316L	1 6	
FM (XP) Class I, Div. 1, Groups A, B, C, D ⁸⁾¹¹⁾¹²⁾²¹⁾²⁵⁾²⁷⁾	1 M		Flange DN 80 PN 40 EN 1092-1 Form B1/316L	1 7	
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ⁴⁾⁸⁾¹²⁾²¹⁾²²⁾²³⁾²⁴⁾	1 N		Flange DN 100 PN 16 EN 1092-1 Form B1/316L	1 8	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁴⁾¹²⁾²¹⁾²²⁾	1 P		Flange 2" 150 lb RF, ANSI B16.5/316L	3 0	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁷⁾¹²⁾	1 Q		Flange 2" 300 lb RF, ANSI B16.5/316L	3 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 3" 150 lb RF, ANSI B16.5/316L	3 3	
NEPSI Ex ia IIC T6 ⁴⁾	2 A		Flange 3" 300 lb RF, ANSI B16.5/316L	3 4	
NEPSI Ex ia IIC T6 + DIP A20/21 TA T*	2 B		Flange 4" 150 lb RF, ANSI B16.5/316L	3 5	
NERSI Ex d ia IIC T6	2 C		Flange 4" 300 lb RF, ANSI B16.5/316L	3 6	
NEPSI Ex d ia IIC T6 + DIP A20/21 TA T*	2 D		Flange 6" 150 lb RF, ANSI B16.5/316L	3 7	
NEPSI Ex d IIC T6 ²⁷⁾	2 E		Electronics		
NEPSI Ex d IIC T6 + DIP A20/21 TA T* ²⁷⁾	2 F		Two-wire 4 ... 20 mA/HART	0	
NEPSI DIP A20/21 TA T*	2 G		Four-wire Modbus ¹⁶⁾¹⁷⁾¹⁸⁾¹⁹⁾	1	
INMETRO Ex ia IIC T6 ... T10 ⁴⁾	3 A		Two-wire 4 ... 20 mA/HART with SIL qualification ¹⁵⁾	2	
INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb	3 B		Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ¹³⁾⁵⁾	3	
			Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹³⁾⁵⁾	4	
			PROFIBUS PA ²²⁾	5	
			FOUNDATION Fieldbus	6	
			Seal/Process temperature		
			FKM (SHS FPM 70C3 GLT)/-40 ... +80 °C (-40 ... +176 °F)	A	
			FKM (SHS FPM 70C3 GLT)/-40 ... +150 °C (-40 ... +302 °F)	B	
			FFKM (Kalrez 6375)/-20 ... +200 °C (-4 ... +392 °F)	C	

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Article No.	Ord. Code
SITRANS 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.		
EPDM (A+P 75.5/KW75F)/without/ -40...+80 °C (-40 ... +176 °F)		D	<u>Cable lengths ø 4 mm/316</u>		
EPDM (A+P 75.5/KW75F)/without/ -40 ... +150 °C (-40 ... +392 °F)		E	501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 2 E
Housing/Protection/Cable			1 001 ... 5 000 mm (39.41 ... 196.85 inch)		9 R 2 F
Plastic IP66/IP67 M20 x 1.5/blind stopper		A	5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 2 G
Plastic IP66/IP67 1/2" NPT/blind stopper		B	10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 2 H
Plastic 2-chamber/IP66/IP67/M20 x 1.5/ blind stopper		C	15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 2 J
Plastic 2-chamber/IP66/IP67/ 1/2" NPT/ blind stopper		D	20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 2 K
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ blind stopper		E	25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 2 L
Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/ blind stopper		F	30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 2 M
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper		G	35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 2 N
Aluminum double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		H	40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 2 P
Stainless Steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper		J	45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 2 Q
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		K	50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 2 R
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper		L	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) M20 x 1.5/blind stopper		M	<u>Cable lengths ø 6 mm/316L</u>		
Stainless steel double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		N	500 mm (19.69 inch)		9 R 4 A
Stainless steel double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		P	501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 4 B
Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland stainless steel		Q	1 001 ... 5 000 mm (39.41 ... 196.85 inch)		9 R 4 C
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		R	5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 4 D
Stainless steel (precision casting) 316L/ IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		S	10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 4 E
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel		T	15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 4 F
Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		W	20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 4 G
Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		X	25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 4 H
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		Y	30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 4 J
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		U	35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 4 K
Lengths			40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 4 L
<u>Rod ø 16 mm/316L</u>			45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 4 M
500 mm (19.69 inch)		0	50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 4 N
501 ... 1 000 mm (19.72 ... 39.37 inch)		1	55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9 R 4 P
1 001 ... 2 000 mm (39.41 ... 78.74 inch)		2	<u>Cable lengths ø 6 mm or ø 11 mm/PA coated</u>		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)		3	501 ... 1 000 mm (19.72 ... 39.37 inch)		9 R 6 A
3 001 ... 4 000 mm (118.15 ... 157.48 inch)		4	1 001 ... 5 000 mm (39.41 ... 196.85 inch)		9 R 6 B
4 001 ... 5 000 mm (157.52 ... 196.85 inch)		5	5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9 R 6 C
5 001 ... 6 000 mm (196.89 ... 236.22 inch)		6	10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9 R 6 D
			15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9 R 6 E
			20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9 R 6 F
			25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9 R 6 G
			30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9 R 6 H
			35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9 R 6 J
			40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9 R 6 K
			45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 6 L
			50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 6 M
			55 001 ... 65 000 mm (2 165.39 ... 2 559.06 inch)		9 R 6 N

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code	Selection and Ordering data	Order code
Further designs (mandatory)		Further designs (optional)	
Please add "-Z" to Article No. and specify Order code(s).		Please add "-Z" to Article No. and specify Order code(s).	
Supplementary electronics		Enter the total insertion length in plain text description	Y01
Without	A00	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
Additional current output 4 ... 20 mA ¹⁾²⁰⁾	A01	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
Rod mounted		3.1-Inspection Certificate for instrument (EN 10204) ¹³⁾	C12
Without Rod, applicable for coax or cable probe types only	C00	3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹³⁾	D07
Mounted	C01	3.1-Inspection Certificate for instrument with test data (EN 10204) ¹³⁾	C25
Not mounted	C02	2.2-Factory certificate for material (EN 10204) ¹³⁾	C15
Indicating/adjustment module		Quality and test plan ¹³⁾	C26
Without	E00	Dye penetration test + 3.1 certificate/instrument ¹³⁾	C13
Mounted	E01	X-ray test + 3.1 certificate/instrument ¹³⁾	C14
Laterally mounted ¹⁾	E02	Positive material identification test + 3.1 certificate/instrument ¹³⁾	C16
Language of display		Roughness test + 3.1 certificate/instrument ¹³⁾	C18
German	L00	Pressure test + 3.1 certificate/instrument ¹³⁾	C31
English	L01	Helium leak test + 3.1 certificate/instrument ¹³⁾	C32
French	L02	Pressure test according to Norsok + 3.1 certificate/instrument ¹³⁾	C61
Dutch	L03	5 point calibration certificate (min. length 1 000 mm) ¹³⁾	C62
Italian	L04		
Spanish	L05	Operating Instructions	
Portuguese	L06	All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Russian	L07	This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library.	
Chinese	L08		
Japanese	L09		
Operating instructions			
German	M00		
English	M01		
French	M02		
Spanish	M03		

Selection and Ordering data	Article No.
Accessories	
SITRANS LG, GWR sensor Display Module	A5E34143449
SITRANS LG, two-wire 4 ... 20 mA/HART electronic	A5E35637821
SITRANS LG, USB communicator	A5E35192015
SITRANS LG, Mounting eye M12 x 20	PBD:51041448
SITRANS LG, Mounting spring	PBD:51041449
Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
For applicable back up point level switch - see point level measurement section	
¹⁾ Available only with Housing/Protection/Cable options C, D, G, H, N, P ²⁾ Not available with Process/Fitting/Material options 00, 01, 02, and 03 ³⁾ Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01 ⁴⁾ Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0T, 1N, 1P, 2A, and 3A 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 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 F, H, P, and K ²²⁾ Not available with Supplementary electronic option A01 ²³⁾ Available with Housing/ protection options W and Y ²⁴⁾ Available with Housing/ protection 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	
Note: Please consult manual for further details.	

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⁾	0 A
Shipping approval ⁽¹⁷⁾⁽¹⁸⁾⁽¹⁹⁾	0 B
Overfill protection (WHG; VLAREM) ⁽³⁴⁾	0 C
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁽³⁾	0 E
ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁽³⁾⁽³⁴⁾	0 F
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁽¹⁷⁾⁽¹⁸⁾⁽¹⁹⁾	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 ⁽¹¹⁾⁽¹⁶⁾⁽²⁸⁾⁽³²⁾	0 R
ATEX II 1D, 1/2D, 2D IP6x T ⁽¹⁶⁾⁽²⁸⁾⁽³²⁾⁽³³⁾	0 S
IEC Ex ia IIC T6 ⁽³⁾	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⁾	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	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⁾	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⁾	2 A
NEPSI Ex ia IIC T6 + DIP A20/21 TA T*	2 B
NEPSI 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⁾	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

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

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
Flange DN 50 PN 40 Form C, DIN 2501/316L	1 0
Flange DN 50 PN 40 form V13, DIN 2513/316L	1 1
Flange DN 65 PN 64 Form V13, DIN 2501/ 316L	1 2
Flange DN 80 PN 40 Form C, DIN 2501/316L	1 3
Flange DN 80 PN 40 Form V13, DIN 2501/ 316L	1 4
Flange DN 80 PN 100 Form L, DIN 2501/ 316L ⁽⁴⁰⁾	1 5
Flange DN 100 PN 16 Form C, DIN 2501/316L	1 6
Flange DN 100 PN 16 Form V13, DIN 2501/ 316L	1 7
Flange DN 100 PN 40 Form C, DIN 2501/316L	1 8
Flange DN 100 PN 40 Form V13, DIN 2513/ 316L	2 0

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 150 PN 16 Form C, DIN 2501/316L	2 1		Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	7 0	
Flange DN 50 PN 40 EN 1092-1 Form B1/316L	2 2		Flange DN 50 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) solid	7 1	
Flange DN 100 PN 160 GOST 12815-80.7/ 316L ⁽⁴⁰⁾	2 3		Flange DN 100 PN 16 Form C, DIN 2501/C22 solid	7 2	
Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 4		Flange DN 100 PN 40 Form N, DIN 2501/ Alloy C22 (2.4602) solid	7 3	
Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 5		Flange DN 50 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid	7 4	
Flange 2" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 6		Flange 2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	7 5	
Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 7		Flange 2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	7 6	
Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	2 8		Flange 2" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	7 7	
Flange DN 80 PN 160 Form C, DIN 2501/ 316L ⁽⁴⁰⁾	6 0		Flange 2" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	7 8	
Flange DN 80 PN 250 Form L, DIN 2501/ 316L ⁽⁴⁰⁾	6 1		Flange 2" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	8 0	
Flange DN 50 PN 160, EN 1092-1 Form B1/ 316L ⁽⁴⁰⁾	6 2		Flange 3" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 1	
Flange DN 50 PN 160, EN 1092-1 Form B2/ 316L ⁽⁴⁰⁾	6 3		Flange 3" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 2	
Flange DN 50 PN 320, EN 1092-1 Form B1/ 316L ⁽⁴⁰⁾	6 4		Flange 3" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 3	
Flange DN 65 PN 250, EN 1092-1 Form B1/ 316L ⁽⁴⁰⁾	6 5		Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 4	
Flange DN 100 PN 160, EN 1092-1 Form B2/ 316L ⁽⁴⁰⁾	6 6		Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	8 5	
Flange DN 80 PN 63, EN 1092-1 Form B2/ 316L	6 7		Flange 3" 600 lb RJF for R31, ASME B16.5/ Alloy C22 (2.4602) solid	8 6	
Flange 4" 600 lb RF, ASME B16.5/ 316L with Alloy C22 (2.4602) coating	6 8		Flange 2" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 A
Flange 2" 150 lb RF, ANSI B16.5/316L	3 0		Flange 3" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 B
Flange 2" 300 lb RF, ANSI B16.5/316L	3 1		Flange 3" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 C
Flange 2" 600 lb RF, ANSI B16.5/316L	3 2		Flange 4" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 D
Flange 2" 1 500 lb RF, ANSI B16.5/316L	3 3		Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 E
Flange 3" 150 lb RF, ANSI B16.5/316L	3 4		Flange 4" 900 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 F
Flange 3" 300 lb RF, ANSI B16.5/316L	3 5		Flange 4" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 G
Flange 3" 600 lb RF, ANSI B16.5/316L	3 6		Flange 4" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 H
Flange 3" 900 lb RF, ANSI B16.5/316L	3 7		Flange 4" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 J
Flange 3" 2 500 lb RF, ANSI B16.5/316L	3 8		Flange 8" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid	9 0	L 1 K
Flange 3 1/2" 600 lb RF, ANSI B16.5/316L	4 0		Flange 3 1/2" 600 lb Fisher type 249B and 259B/ Alloy C22 (2.4602) solid	9 0	L 1 L
Flange 4" 150 lb RF, ANSI B16.5/316L	4 1		Flange 2 1/2" 300 lb RF, ASME B16.5/316/316L	9 0	L 2 A
Flange 4" 300 lb RF, ANSI B16.5/316L	4 2		Flange 2 1/2" 600 lb RF, ASME B16.5/316/316L	9 0	L 2 B
Flange 4" 600 lb RF, ANSI B16.5/316L	4 3		Flange DN 50 PN 40 Form D, EN 1092-1/316/ 316L ^(7/41)	9 0	L 2 C
Flange 6" 150 lb RF, ANSI B16.5/316L	4 4		Flange 2 1/2" 1 500 lb RF, ASME B16.5/316/ 316L ⁽⁷⁾	9 0	L 2 D
Flange 6" 300 lb RF, ANSI B16.5/316L	4 5		Thread G 3/4" (DIN 3852-A) PN 100/316L	9 0	L 3 A
Flange 6" 600 lb RF, ANSI B16.5/316L	4 6		Thread 3/4" NPT, ASME B1.20.1/PN 400/316L	9 0	L 3 B
Flange 2" 150 lb Fisher special return/316L	4 7		Thread G 1" (DIN 3852-A) PN 100/316L	9 0	L 3 C
Flange 3" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602)	4 8		Thread 1" NPT, ASME B1.20.1/PN 100/316L	9 0	L 3 D
Flange 2" 900 lb RF, ANSI B16.5/316L	5 0		Thread G 1 1/2" (DIN 3852-A) PN 100/316L	9 0	L 3 E
Flange 3" 1 500 lb RF, ANSI B16.5/316L	5 1		Thread 1 1/2" NPT, ASME B1.20.1/PN 100/316L	9 0	L 3 F
Flange 4" 900 lb RF, ANSI B16.5/316L	5 2		Thread 2" NPT, ASME B1.20.1/PN 100/316L	9 0	L 3 G
Flange 4" 1 500 lb RF, ANSI B16.5/316L	5 3				
Flange 4" 2 500 lb RJF, ANSI B16.5/316L ⁽⁴⁰⁾	5 4				
Flange 4" 1500 lb RJF, ASME B16.5/316L ⁽⁴⁰⁾	5 5				
Flange 3" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 6				
Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 7				
Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating	5 8				

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 A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications	7ML5883-		SITRANS LG270 A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications	7ML5883-	
Electronics Two-wire 4 ... 20 mA/HART Four-wire Modbus ⁽²³⁾⁽²⁴⁾⁽²⁵⁾⁽²⁶⁾ Two-wire 4 ... 20 mA/HART with SIL qualification ⁽²²⁾ Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ⁽¹⁾⁽²⁾⁽⁶⁾ Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ⁽¹⁾⁽²⁾⁽⁶⁾ PROFIBUS PA ⁽³¹⁾ FOUNDATION Fieldbus		0 1 2 3 4 5 6	Lengths <u>Rod ø 16 mm/316L</u> 300 mm (11.81 inch) ⁽¹⁵⁾ 500 mm (19.69 inch) ⁽¹⁵⁾ 501 ... 1 000 mm (19.72 ... 39.37 inch) ⁽¹⁵⁾ 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽¹⁵⁾ 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽¹⁵⁾ 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽¹⁵⁾ 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ⁽¹⁵⁾ 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ⁽¹⁵⁾ <u>Rod ø 16 mm/C22</u> 501 ... 1000 mm (19.72 ... 39.37 inch) ⁽¹⁵⁾ 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽¹⁵⁾ 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽¹⁵⁾ 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽¹⁵⁾ 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ⁽¹⁵⁾ 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ⁽¹⁵⁾ <u>Rod ø8 mm/C22</u> 300 ... 6 000 mm (11.81 ... 216.53 inch) ⁽¹⁵⁾ <u>Cable lengths ø 2 or 4 mm/316L</u> 501 ... 1 000 mm (19.72 ... 39.37 inch) 1 000 ... 5 000 mm (39.37 ... 196.85 inch) 5 001 ... 10 000 mm (196.89 ... 393.70 inch) 10 001 ... 15 000 mm (393.74 ... 590.55 inch) 15 001 ... 20 000 mm (590.59 ... 787.40 inch) 20 001 ... 25 000 mm (787.44 ... 984.25 inch) 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) 55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch) <u>Cable lengths ø 4 mm/ C22</u> 501 ... 1 000 mm (19.72 ... 39.37 inch) 1 000 ... 5 000 mm (39.37 ... 196.85 inch) 5 001 ... 10 000 mm (196.89 ... 393.70 inch) 10 001 ... 15 000 mm (393.74 ... 590.55 inch) 15 001 ... 20 000 mm (590.59 ... 787.40 inch) 20 001 ... 25 000 mm (787.44 ... 984.25 inch) 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		0 1 2 3 4 5 6 7 9 R1 A 9 R1 B 9 R1 C 9 R1 D 9 R1 E 9 R1 F 9 R1 H 9 R2 E 9 R2 F 9 R2 G 9 R2 H 9 R2 J 9 R2 K 9 R2 L 9 R2 M 9 R2 N 9 R2 P 9 R2 Q 9 R2 R 9 R2 S 9 R4 A 9 R4 B 9 R4 C 9 R4 D 9 R4 E 9 R4 F 9 R4 G 9 R4 H 9 R4 J 9 R4 K
Seal/Second line of defense/ Process temperature Ceramic-graphite/with glass seal/-196 ... +280 °C (-321 ... +536 °F) Ceramic-graphite/with glass seal/-196 ... +450 °C (-321 ... +842 °F) Ceramic-graphite/with glass seal/-196 ... +400 °C (-321 ... +752 °F) PEEK-FFKM (Kalrez 6375) /with glass seal/-20...+250 °C (-4 ... +482 °F) ⁽³⁸⁾⁽³⁹⁾		A B C D			
Housing/Protection/Cable Plastic IP66/IP67 M20 x 1.5/blind stopper Plastic IP66/IP67 1/2" NPT/blind stopper Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated		A B C D E F L M N P Q R S T U V W X Y J			

Selection and Ordering data	Article No.	Ord. Code	Selection and Ordering data	Order code
SITRANS LG270 A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications	7ML5883-		Further designs (mandatory) Please add "-Z" to Article No. and specify Order code(s).	
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9 R 4 L	Supplementary electronics Without	A00
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9 R 4 M	Additional current output 4 ... 20 mA ¹⁾²⁷⁾	A01
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9 R 4 N	Dimensions centering weight (diameter/height) Without	B00
<u>Coax ø 42.2 mm/316L</u>			ø 40/30 mm	B01
300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁵⁾		9 R 3 G	ø 45/30 mm (for 2 inch tubes)	B02
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁵⁾³⁰⁾		9 R 3 H	ø 75/30 mm (for 3 inch tubes)	B03
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁵⁾		9 R 3 J	ø 95/30 mm (for 4 inch tubes)	B04
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁵⁾		9 R 3 K	ø 40 mm/30 mm	B05
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ¹⁵⁾		9 R 3 L	ø 1.57 inch/1.18 inch (for 2 inch Schedule 160)	
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ¹⁵⁾		9 R 3 M	ø 45 mm/30 mm (for 2 inch tubes)	B06
<u>Coax ø 42.2 mm/ C22</u>			ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80)	B07
300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁵⁾		9 R 3 Q	ø 75 mm/30 mm (for 3 inch tubes)	B08
1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁵⁾³⁰⁾		9 R 3 R	ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40)	
2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁵⁾		9 R 3 S	ø 95 mm/30 mm (for 4 inch tubes)	
3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁵⁾		9 R 3 T	ø 3.74 inch/1.18 inch (for 4 inch Schedule 80)	
4 001 ... 5 000 mm (157.52 ... 196.85 inch) ¹⁵⁾		9 R 3 U	Rod mounted Without Rod, applicable for coax or cable probe types only ³⁾	C00
5 001 ... 6 000 mm (196.89 ... 236.22 inch) ¹⁵⁾		9 R 3 V	Mounted	C01
			Not mounted	C02
			Indicating/adjustment module Without	E00
			Mounted	E01
			Laterally mounted ¹⁾	E02
			Language of display German	L00
			English	L01
			French	L02
			Dutch	L03
			Italian	L04
			Spanish	L05
			Portuguese	L06
			Russian	L07
			Chinese	L08
			Japanese	L09
			Operating instructions German	M00
			English	M01
			French	M02
			Spanish	M03

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs (optional)		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
Reference probe G length of reference distance = 260 mm/10.24 inches (note blanking 450 mm required with min. probe 1 000 mm)	Y05	SITRANS LG, USB communicator	A5E35192015
Reference probe G length of reference distance = 500 mm/19.69 inches (note blanking 690 mm required with min. probe 1 500 mm)	Y06	SITRANS LG, Mounting eye M12 x 20	PBD:51041448
Reference probe G length of reference distance = 750 mm/29.53 inches (note blanking 940 mm required with min. probe 1 500 mm)	Y07	SITRANS LG, Mounting spring	PBD:51041449
Y02 rigid part is 100 mm, only applicable for cable versions	Y02	Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
Cleaning included certificate: oil, grease and silicone free	W01	SITRANS RD100, loop powered display - see Chapter 7	7ML5741-...
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 RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-...
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 RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-...
3.1-Inspection Certificate for instrument (EN 10204) ²⁰⁾	C12	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750-...
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	1) Available with Housing/Protection/Cable options E, F, Q, R, and T	
2.2-Factory certificate for material (EN 10204) ²⁰⁾	C15	2) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01	
Quality and test plan ²⁰⁾	C26	3) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0T, 1N, 1P, 2A, and 3A	
Dye penetration test + 3.1 certificate/instrument ²⁰⁾	C13	4) Available with Centering weight option B00 only	
X-ray test + 3.1 certificate/instrument ²⁰⁾	C14	5) Available with Centering weight options B01 ... B08 only	
Positive material identification test + 3.1 certificate/instrument ²⁰⁾	C16	6) Available with Approval options 0A, 0B, 0J, 0K, 0N, 0R, 0S, 1A, 1C, 1E, 1F, and 1G	
Roughness test + 3.1 certificate/instrument ²⁰⁾	C18	7) Available only with the same Version/Material, Process fitting/Material, and Length types	
Pressure test + 3.1 certificate/instrument ²⁰⁾	C31	8) Available with Version/Material options A, B, C, D, F, G	
Helium leak test + 3.1 certificate/instrument ²⁰⁾	C32	9) Available with Rod Mounted options C01 and C02	
Pressure test according to Norsok + 3.1 certificate/instrument ²⁰⁾	C61	10) Available with Indicating/adjustment module options E00 and E01	
5 point calibration certificate (min. length 1 000 mm) ²⁰⁾²⁹⁾	C62	11) Available with Housing/Protection Cable options C, D, L, M only	
Certificate: Approval for steam boiler according to EN 12952-11, EN 12953-9 ³⁵⁾	C70	12) Version/Material Hastelloy C22, temperature is limited to 400 °C (752 °F)	
Operating Instructions		13) Minimum probe length (Y01) is 1 250 mm (49 inch)	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation		14) Available with Housing/Protection Cable options E, F, Q, and R	
This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library.		15) Not available with Y02	
		16) Available with Housing protection 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 housings/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 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 options W and Y	
		33) Available with Housing/protection 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 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	

Note: Please consult manual for further details.

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data		Article No.	
SITRANS LG Remote Interface		7ML5840-	
 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		
½" NPT/ Blind plug	5		
Display			
Without	A		
Mounted	B		
Mounting			
For wall mounting with Aluminum or stainless steel housing	A		
For carrier rail and wall mounting with plastic housing	B		
For carrier rail with Aluminum or stainless steel housing	C		
For tube mounting (29 ... 60 mm) including mounting material	D		
Certificates			
None	0		
3.1 Certificate/Instrument with test data	1		
Quality and Test plan	2		
1) Available 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-	
 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		
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		

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Article No.
SITRANS LG Replacement Probes	7ML5841-
	 0
<u>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	

Selection and Ordering data		Article No.
SITRANS LG Spacers		7ML5842-
		- 0 0 A A 0
 Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Instrument		
LG240 ¹⁾	0	
LG250 ²⁾	1	
LG260 ³⁾	2	
LG270 ³⁾	3	
Version/Material		
Cable ø 4 mm/ PFA ⁴⁾	AA	
Rod ø 8 mm including fastening/ PEEK can be shortened ⁵⁾	AB	
Rod ø 10 mm/ PFA ⁴⁾	AC	
Rod ø 12 mm including fastening/ PEEK can be shortened ⁵⁾	AD	
Rod ø 16 mm, cable with gravity weight, including fastening/ PEEK can be shortened ⁵⁾⁷⁾	AE	
Cable ø 2 mm including fastening/ PEEK and 316L	AF	
Rod ø 16 mm including fastening/ 1.4568 (AISI 631) flexible ⁸⁾	AG	
Rod ø 8 mm including fastening/ PTFE can be shortened ⁵⁾	AH	
Rod ø 12 mm including fastening/ 1.4568 (AISI 631) flexible ⁶⁾	AG	
Tube diameter		
50 mm (2 inch) up to 100 mm (4 inch)	1	
49.2 mm (1.9 inch) up to 56.3 mm (2.2 inch)	2	
66.6 mm (2.6 inch) up to 84.9 mm (3.3 inch)	3	

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

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

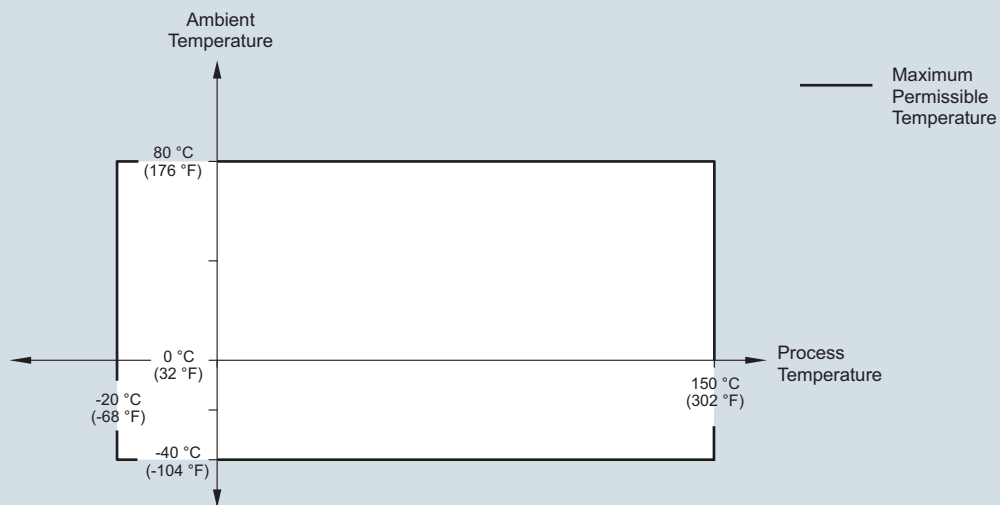
Level Measurement

Continuous level measurement - Guided wave radar transmitters

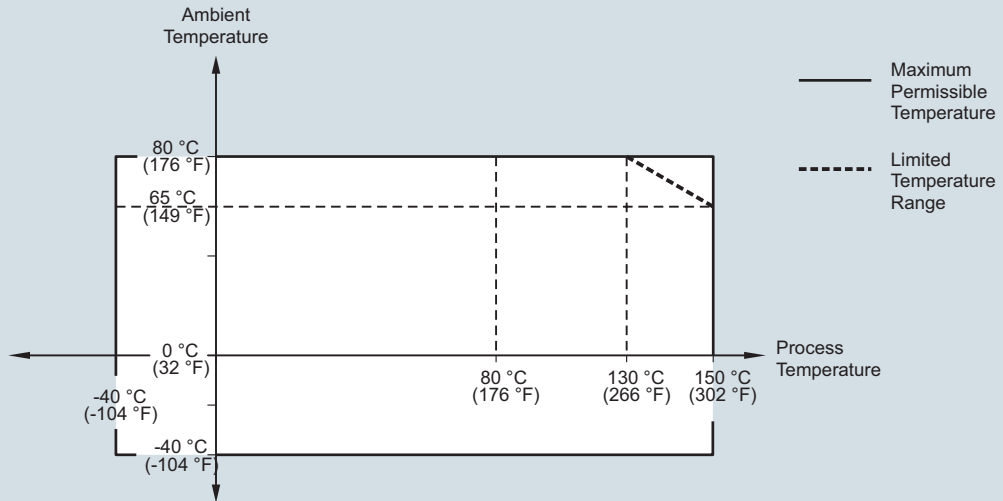
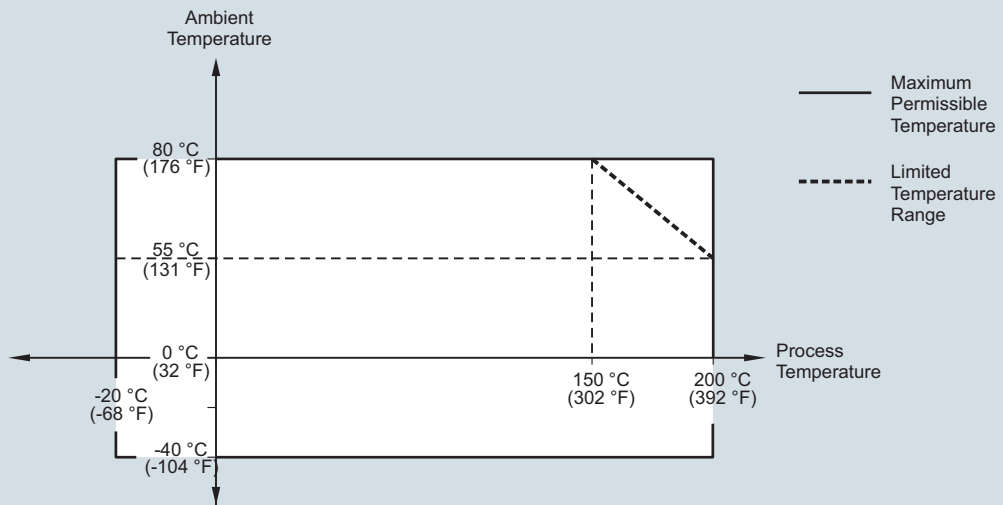
SITRANS LG series

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**

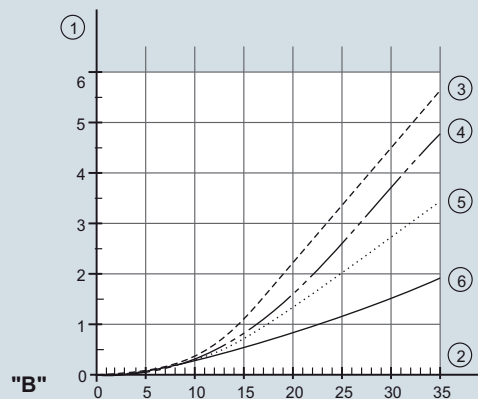
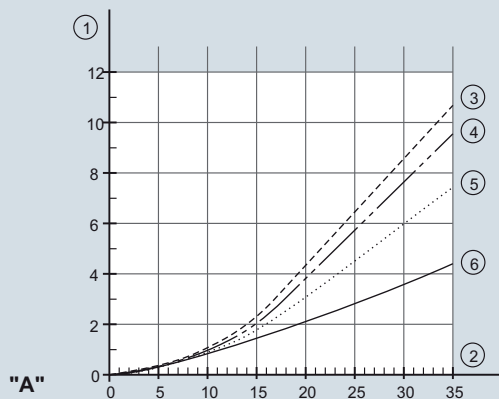
SITRANS LG250, Ambient temperature/process temperature curves

Level Measurement

Continuous level measurement - Guided wave radar transmitters

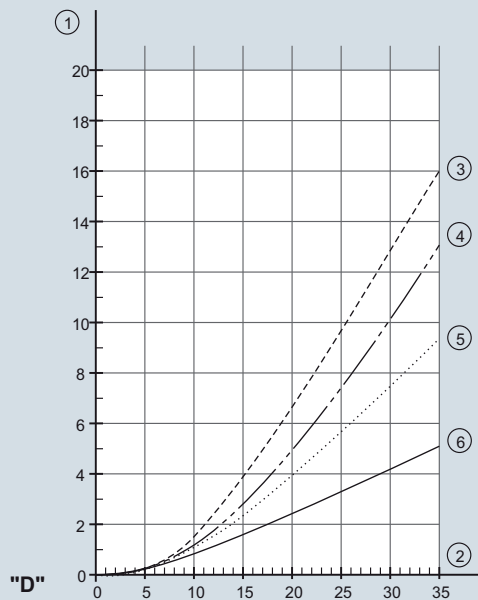
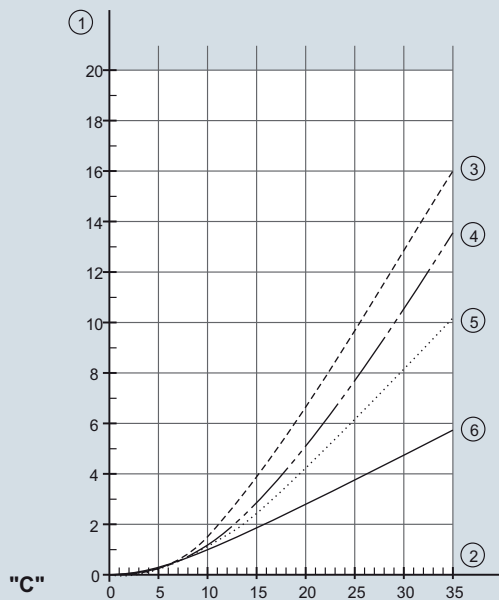
SITRANS LG series

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)

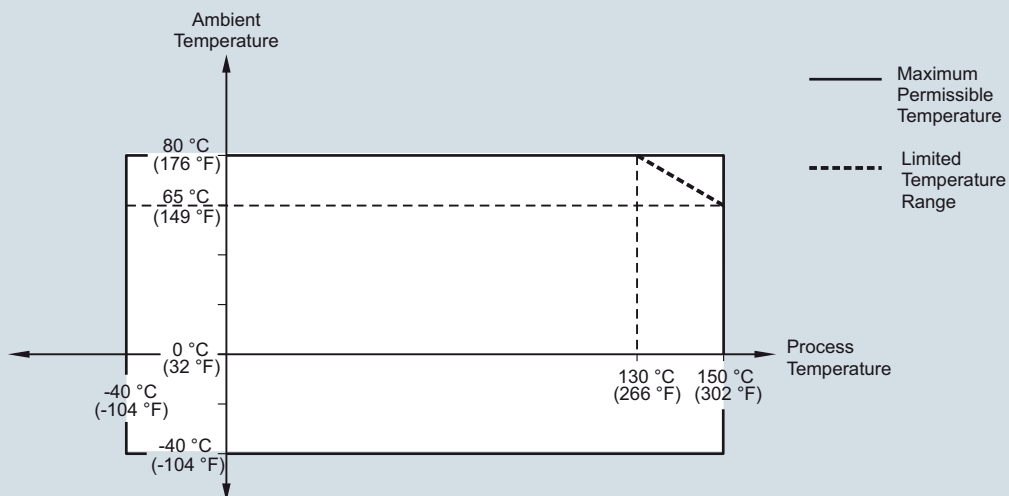
SITRANS LG260, Maximum tensile load with sand and cement - cable: $\varnothing$ 4 mm (0.157 inch)



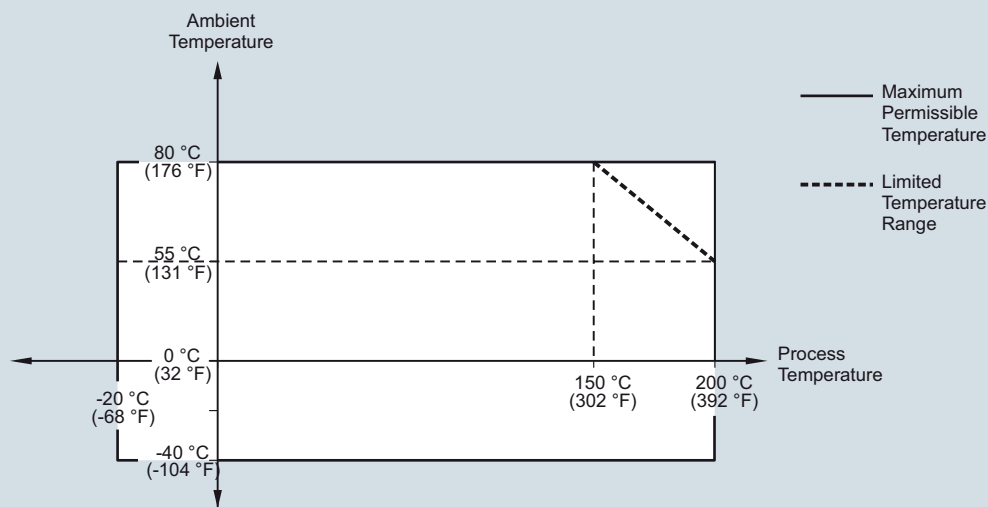
- C. Sand
D. Cement
1. Tensile force in kN (the determined value must be multiplied with safety factor 2)
2. Cable length in m
3. Vessel diameter 12 m (39.37 ft)
4. Vessel diameter 9 m (29.53 ft)
5. Vessel diameter 6 m (19.69 ft)
6. Vessel diameter 3 m (9.843 ft)

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

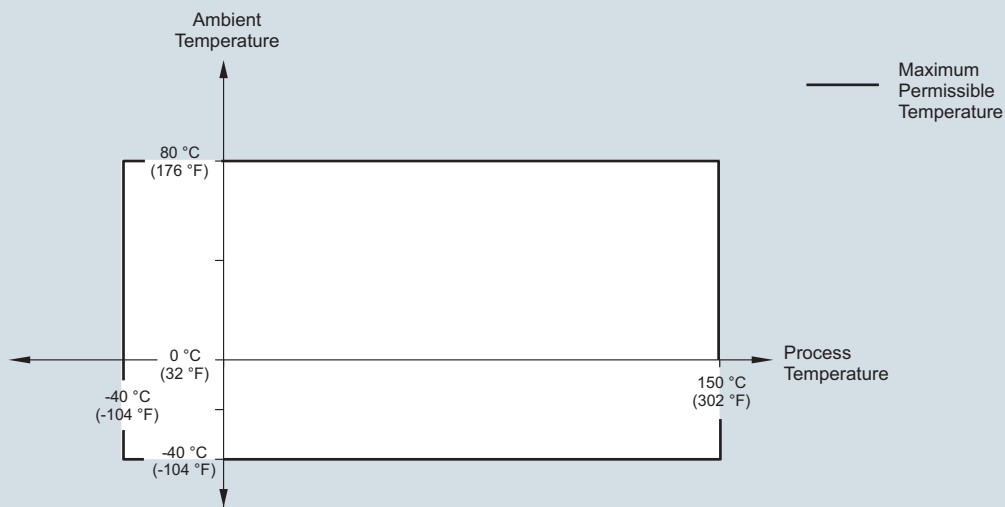
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

SITRANS LG260, Ambient temperature/process temperature, standard version

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

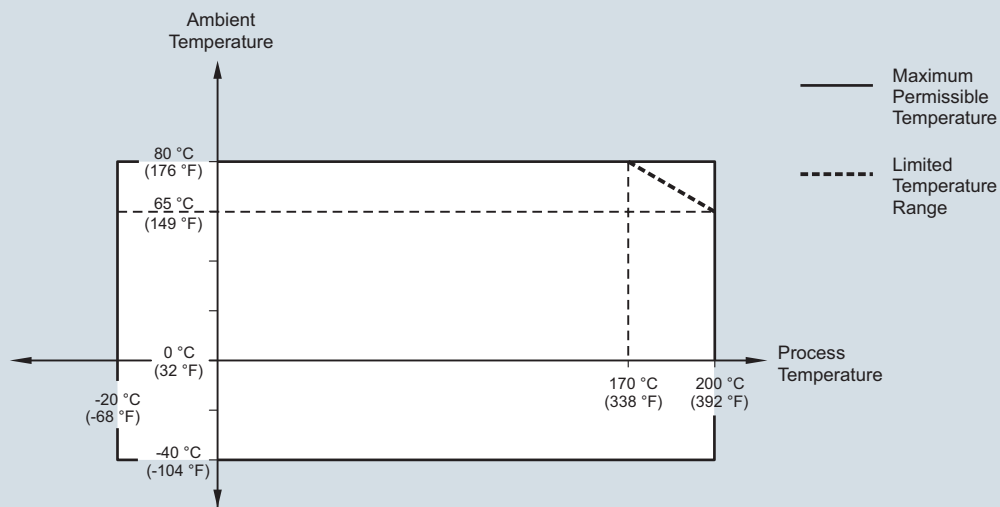
Cable version, PA coated with $\varnothing$ 11 mm (0.433 inch)



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

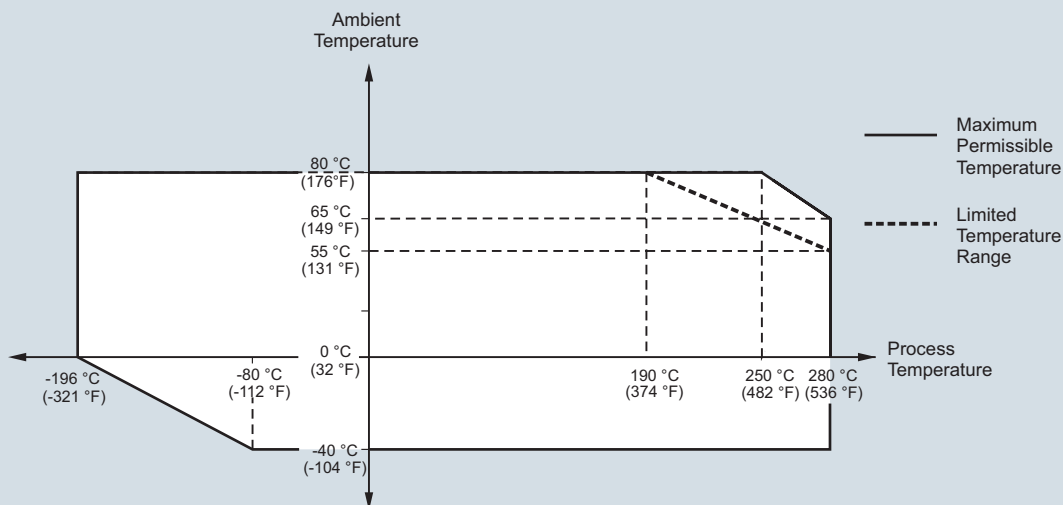
Cable version with $\varnothing$ 6 mm (0.236 inch)

Cable version, PA coated with $\varnothing$ 11 mm (0.433 inch)

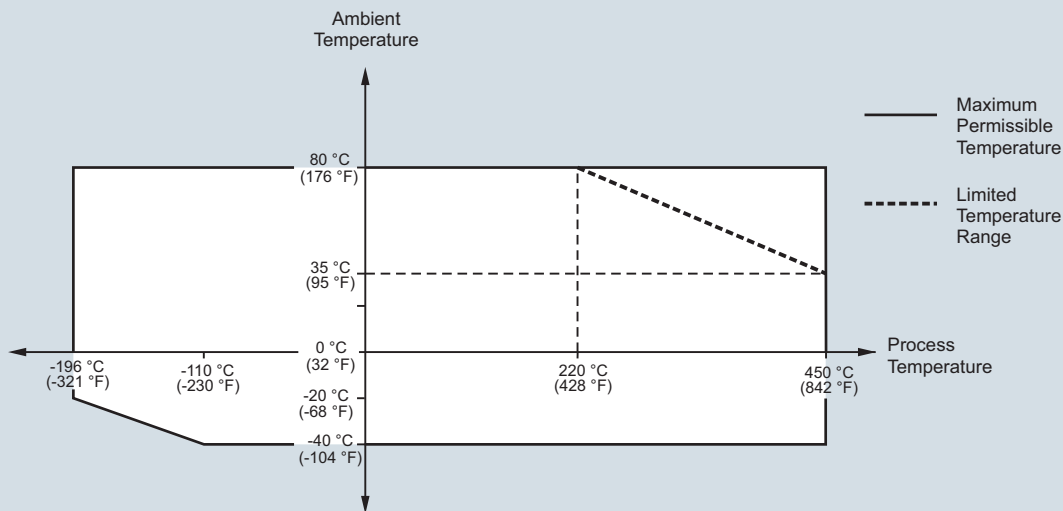


SITRANS LG260, Ambient temperature/process temperature curves

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)



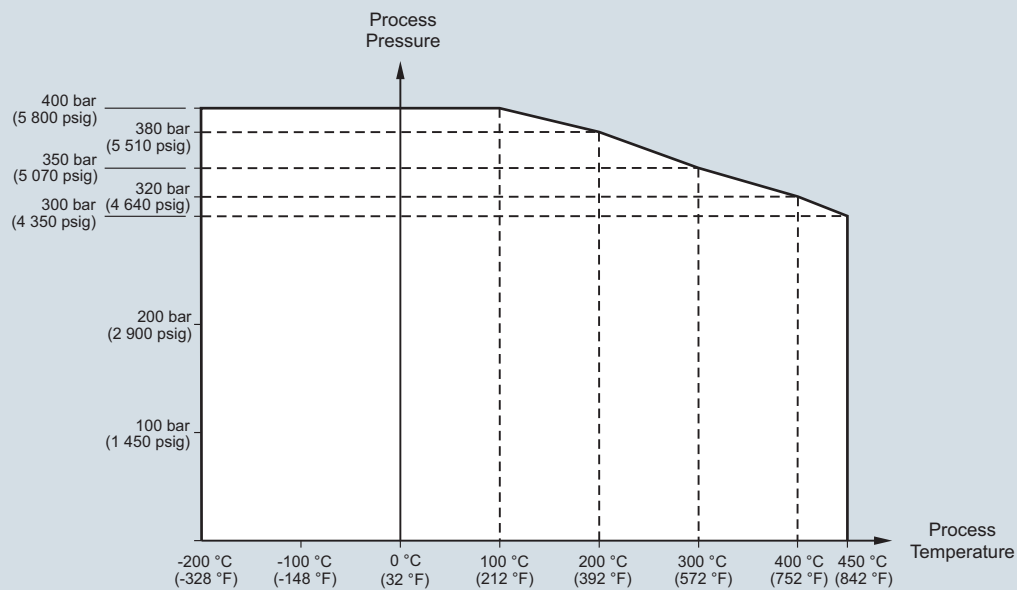
SITRANS LG270, Ambient temperature/process temperature curves

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

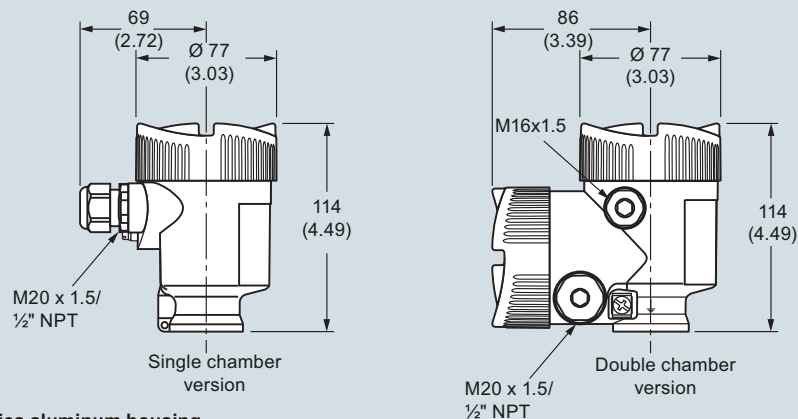
SITRANS LG270, Process pressure/process temperature (-196 ... +450 °C/-321 ... +842 °F version)



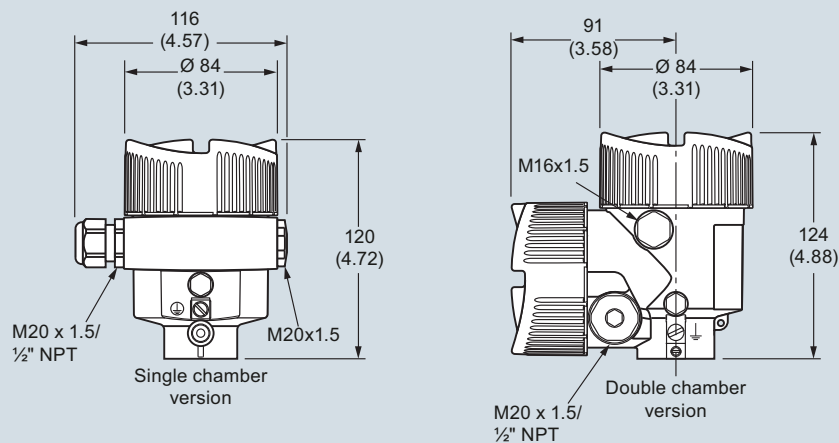
SITRANS LG270, Process pressure/process temperature curve

Dimensional drawings

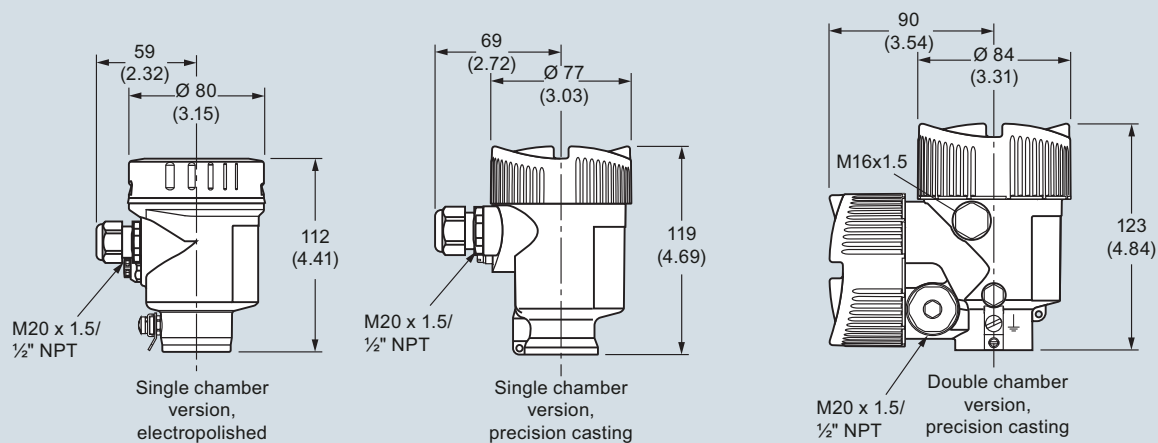
SITRANS LG Series plastic housing



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)

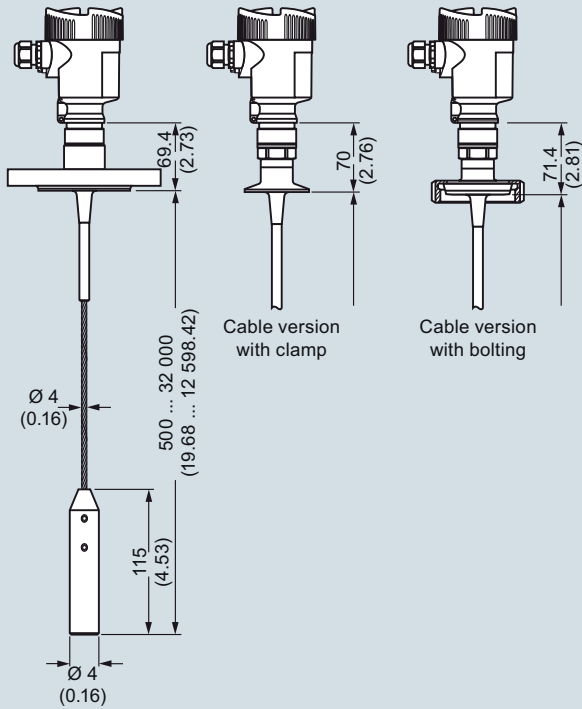
Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

SITRANS LG240

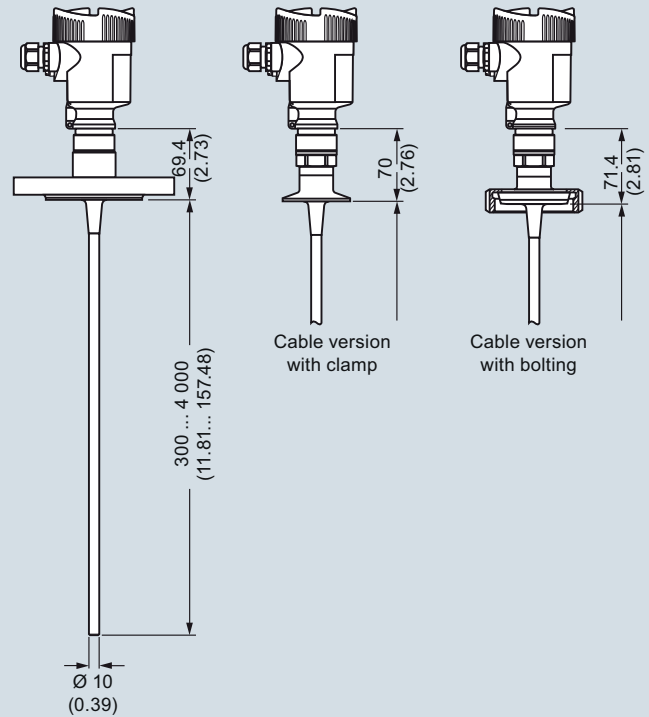
Cable version Ø 4 (0.157), PFA coated



Cable version
with clamp

Cable version
with bolting

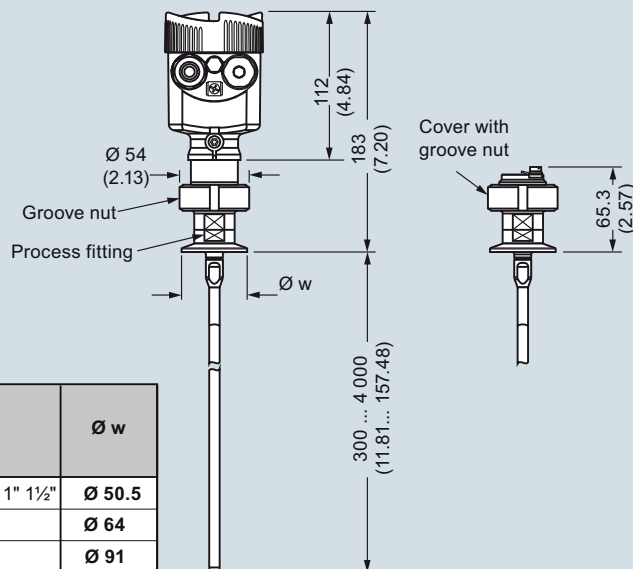
Rod version Ø 10 (0.394), PFA coated



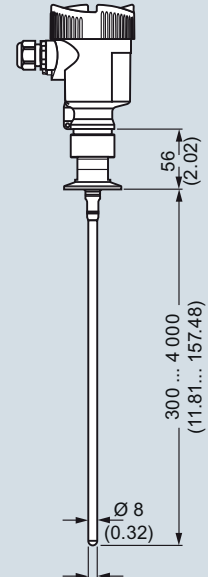
Cable version
with clamp

Cable version
with bolting

Autoclaved version



Rod version Ø 8 (0.315), polished

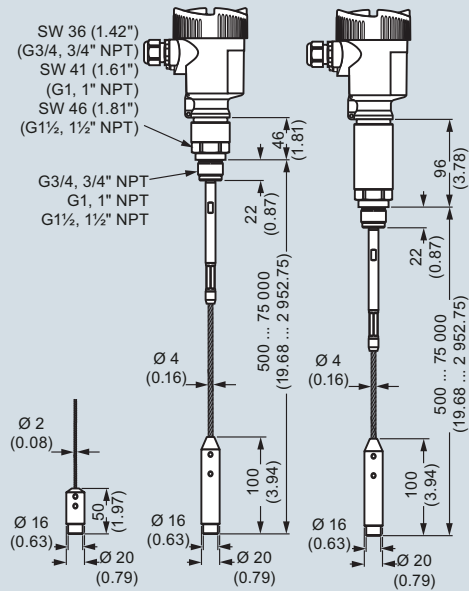


	Ø w
DIN DN 25 DN 32 DN 40/ 1" 1½"	Ø 50.5
DIN DN 50/ 2"	Ø 64
DIN DN 65/ 3"	Ø 91

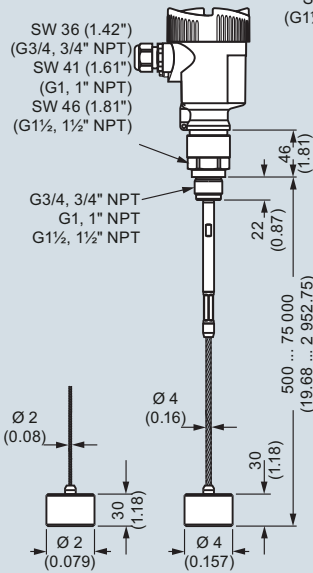
SITRANS LG240, dimensions in mm (inch)

SITRANS LG250

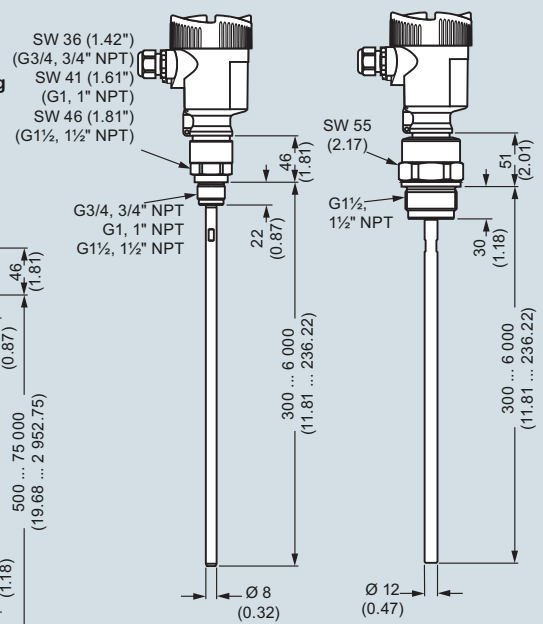
Cable version with gravity weight



Cable version with centering weight

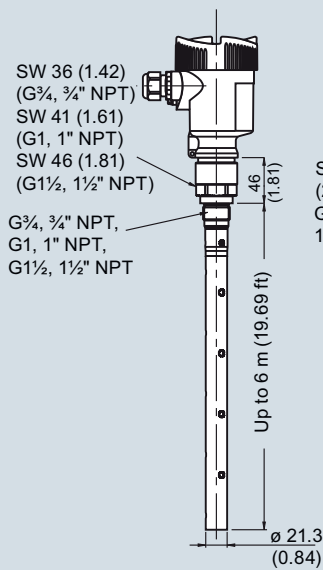
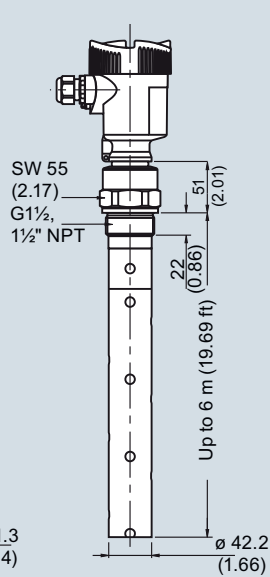


Rod version



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)

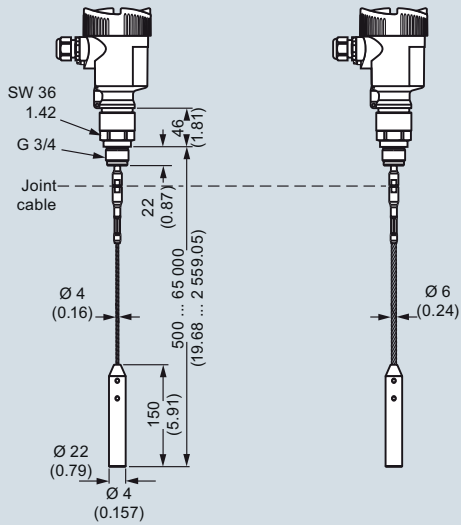
Level Measurement

Continuous level measurement - Guided wave radar transmitters

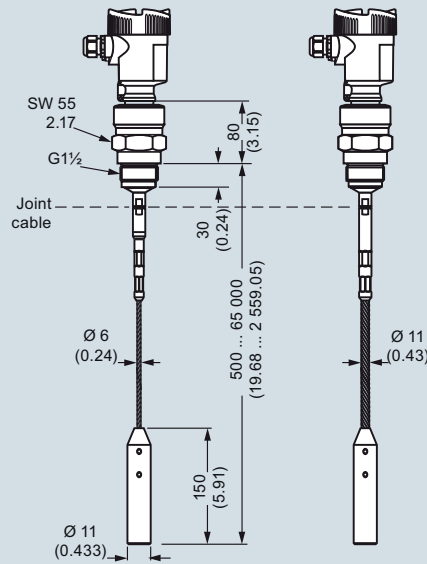
SITRANS LG series

SITRANS LG260

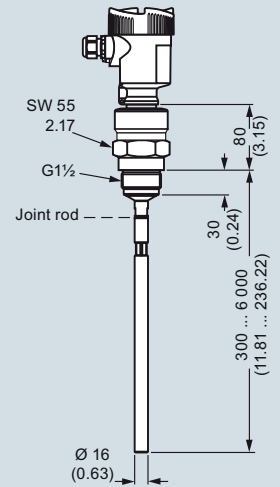
Cable version Ø 4 (0.157)/ Ø 6 (0.236) - PA coated



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



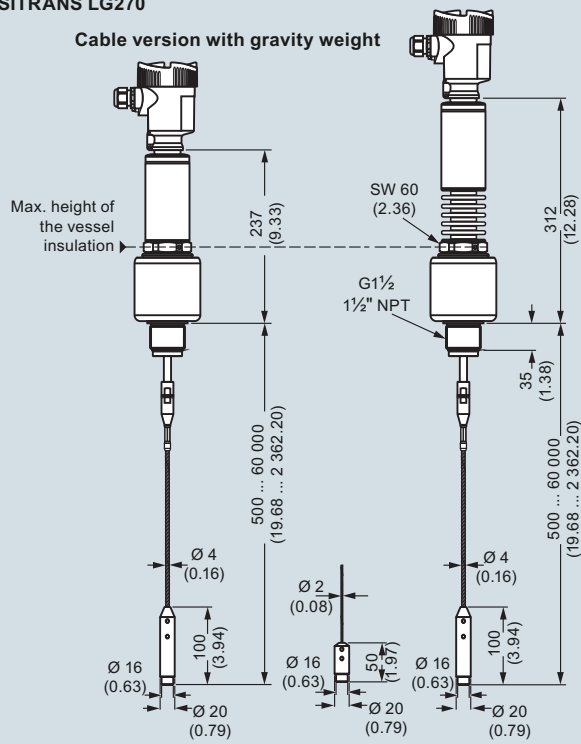
Rod version Ø 16 (0.63)



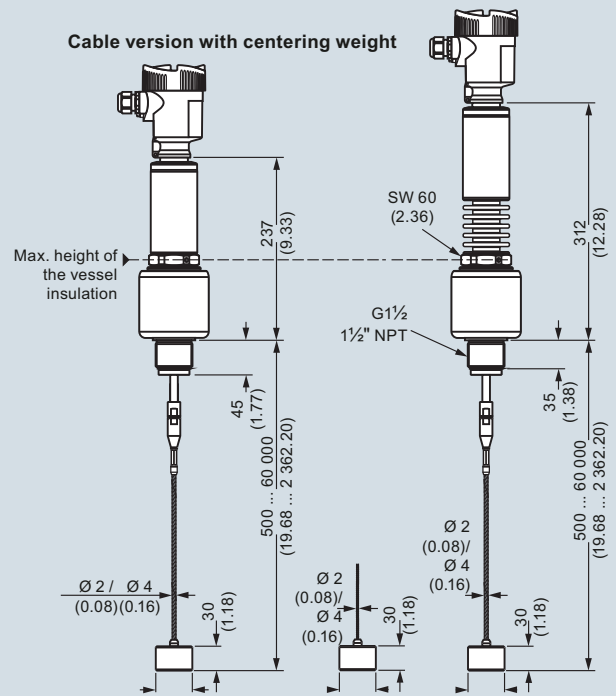
SITRANS LG260, dimensions in mm (inch)

SITRANS LG270

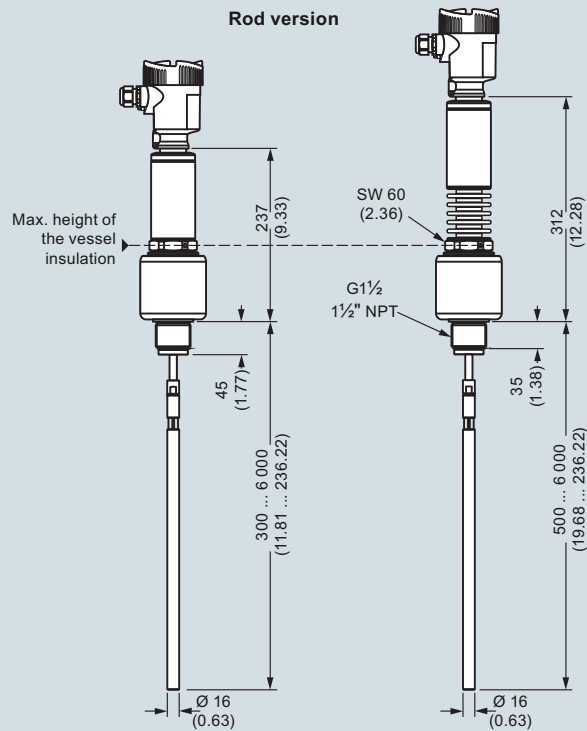
Cable version with gravity weight



Cable version with centering weight



Rod version



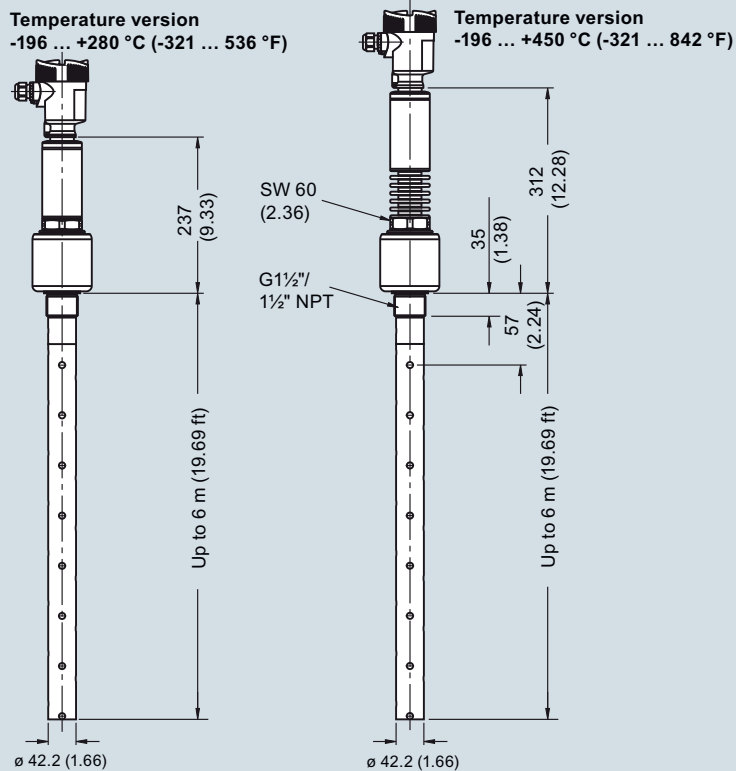
SITRANS LG270, dimensions in mm (inch)

Level Measurement

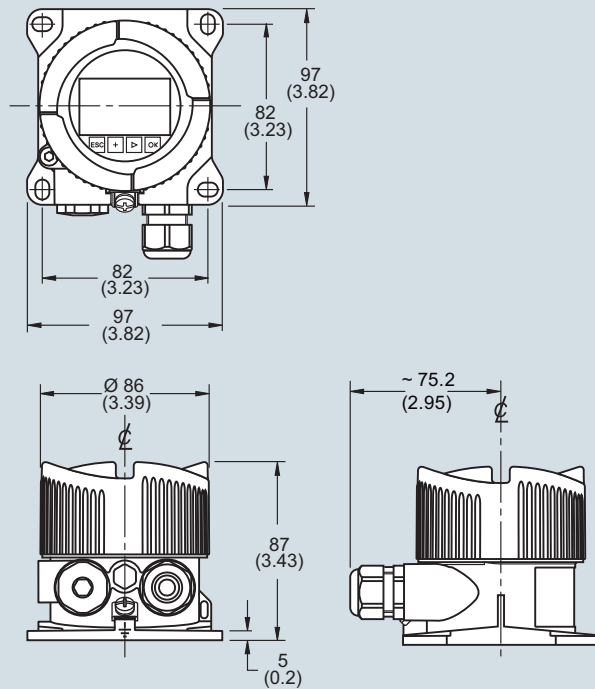
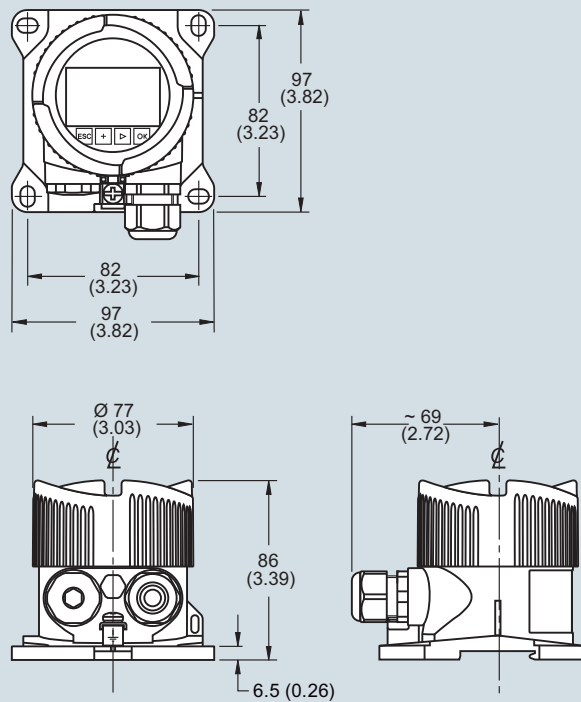
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

SITRANS LG270, coax version



SITRANS LG270, dimensions in mm (inch)

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

SITRANS LG Remote Interface, dimensions in mm (inch)

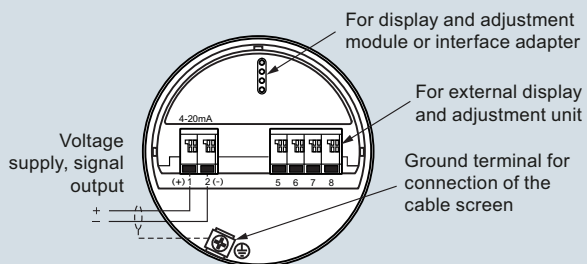
Level Measurement

Continuous level measurement - Guided wave radar transmitters

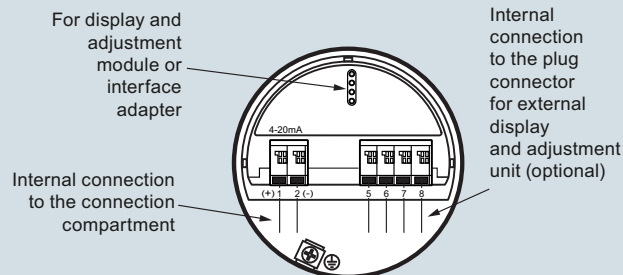
SITRANS LG series

Schematics

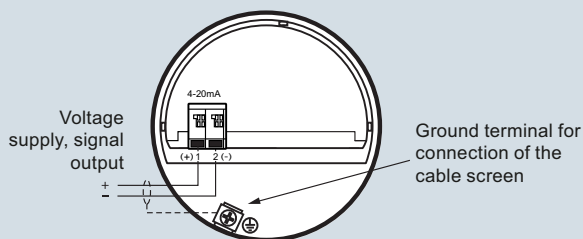
2-wire HART electronic option, electronics and connection compartment, single chamber housing



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



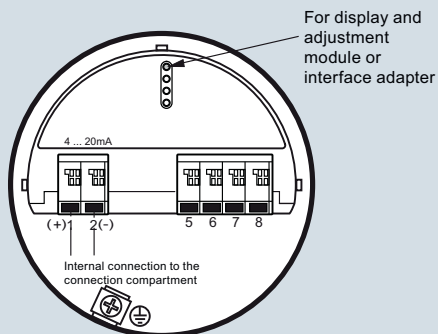
2-wire HART electronic option, connection compartment, Ex-d-ia double chamber housing



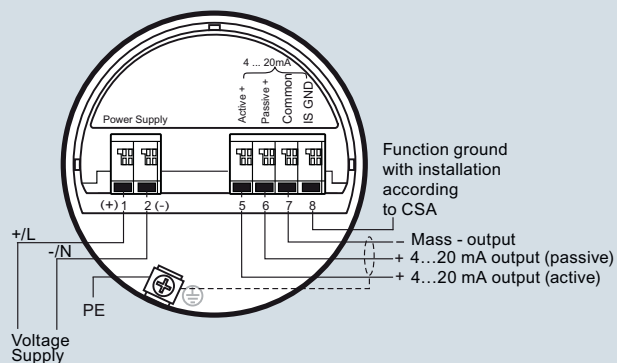
Note: All 2-wire HART connections and electronics are also available with SIL qualification.

SITRANS LG series connections

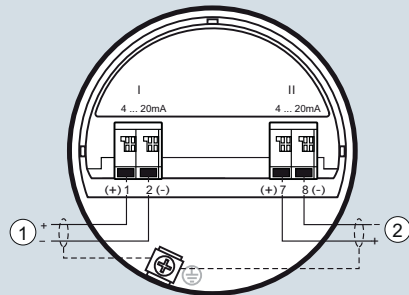
4-wire HART electronic option, electronics compartment, double chamber housing



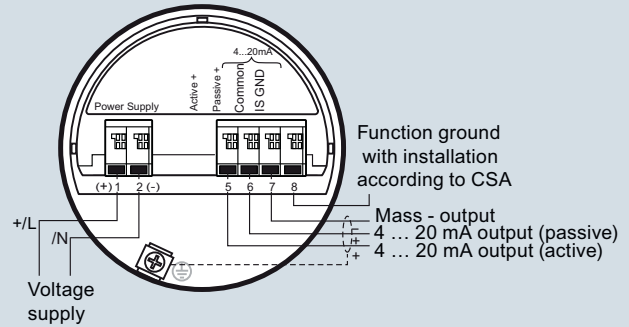
4-wire electronic option, connection compartment, double chamber housing with mains voltage



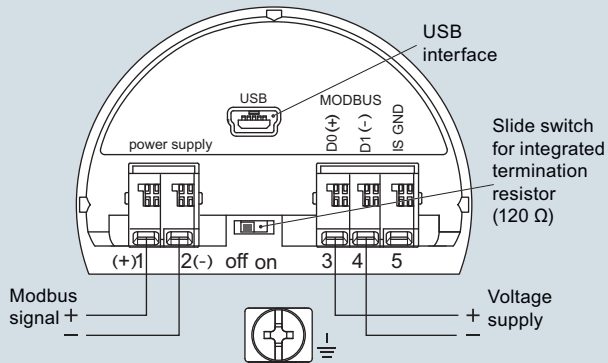
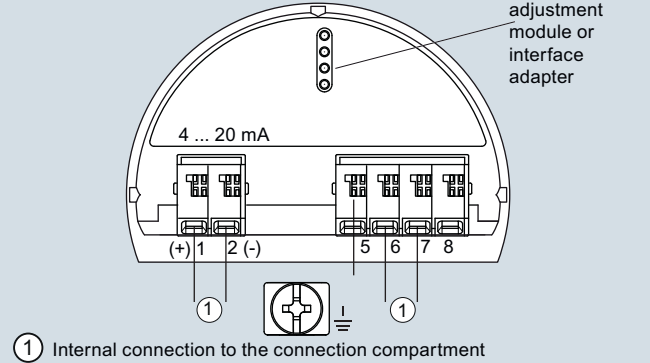
SITRANS LG series connections

Supplementary electronics

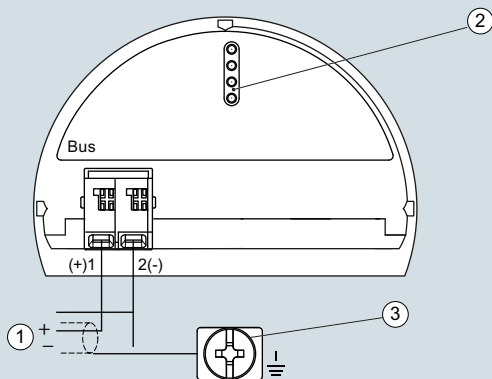
- ① First current output (I) - Voltage supply and signal output (HART)
- ② Second current output (II) - Voltage supply and signal output (without HART)

Connection compartment with low voltage

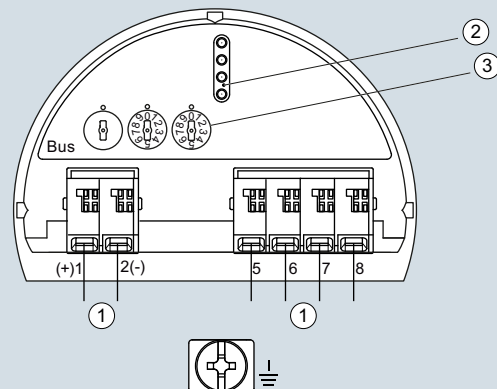
SITRANS LG series connections

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

SITRANS LG series connections

PROFIBUS electronic option, connection compartment, double chamber housing

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

PROFIBUS electronic option, electronics compartment, double chamber housing

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

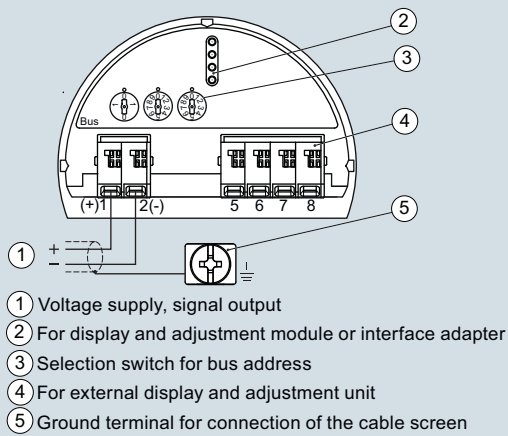
SITRANS LG series connections

Level Measurement

Continuous level measurement - Guided wave radar transmitters

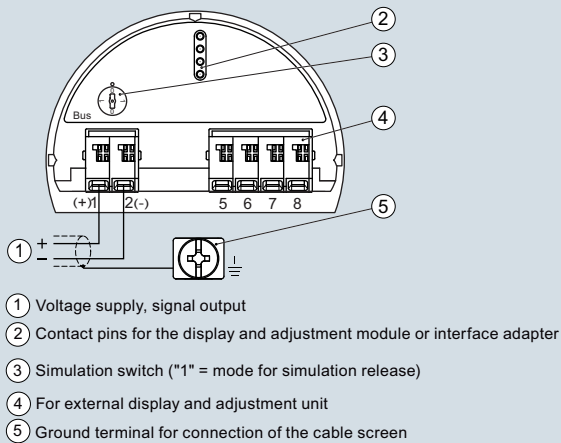
SITRANS LG series

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



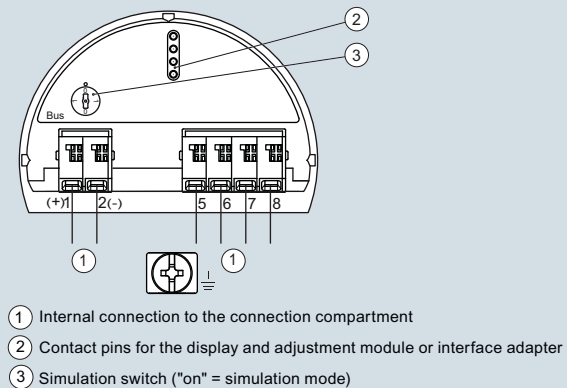
SITRANS LG series connections

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

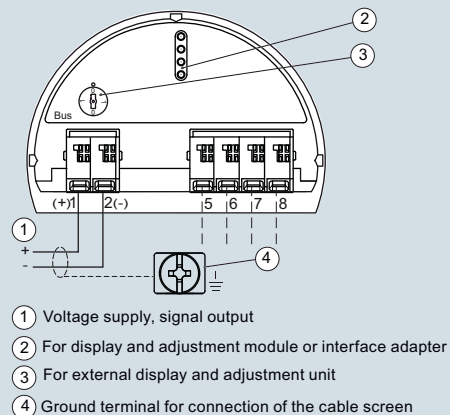


SITRANS LG series connections

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



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



SITRANS LG series connections