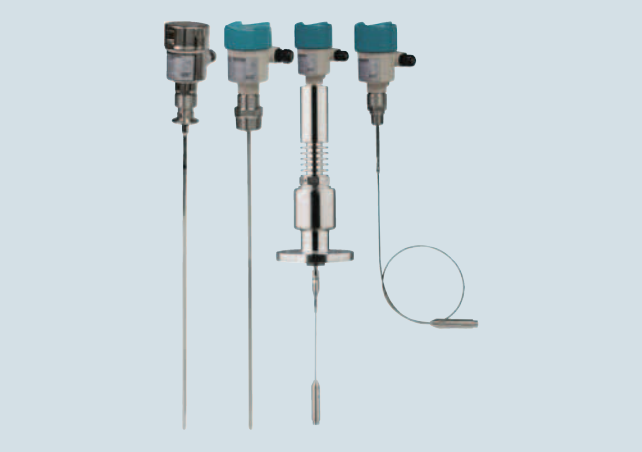
Overview



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 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
- Wide range of Hygienic options

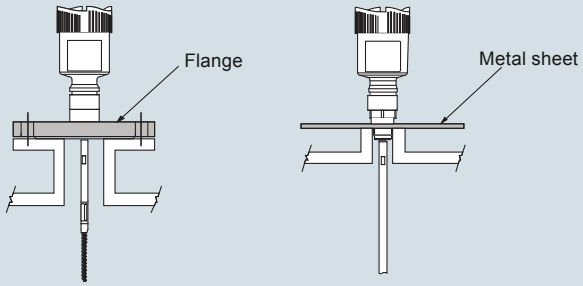
Application

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

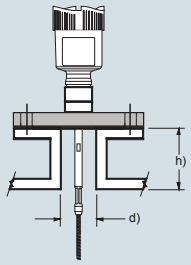
Mounting on nozzle



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, Ø > 200 mm (8 inch), beneath the process fitting when screwing it in.
Make sure that the plate has direct contact with the process fitting

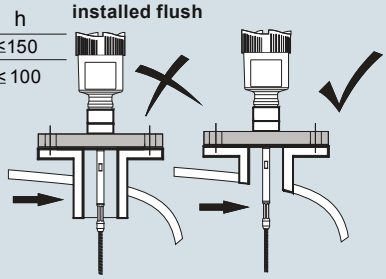
Mounting socket



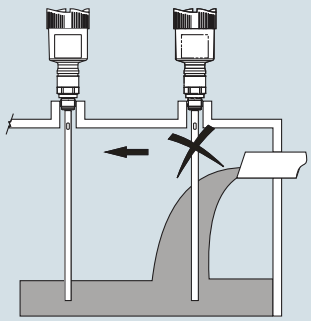
If possible, avoid sockets, mount the sensor flush with the vessel top. If this is not possible, use short sockets with small diameter.
Higher sockets or sockets with a bigger diameter can generally be used. They simply increase the upper blocking distance. Check if this is relevant for your measurement.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

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

Socket must be installed flush



When welding the socket, make sure that the socket is flush to the vessel top.
Before beginning the welding work, remove the electronics module from the sensor. By doing this, you avoid damage to the electronics through inductive coupling.



Inflowing medium

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

SITRANS LG Series, Installation

Technical specifications

Mode of operation	
Measuring principle	Guided wave radar measurement
Measuring range	300 ... 75 000 mm (11.81 ... 2 952.75 inch)
Output	
mA analog output with HART digital signal	4 ... 20 mA/HART (SIL optional)
Output range	
• Analog	Current: minimum 3.8 mA, maximum 20.5 mA
• Start-up current	≤ 10 mA for 5 ms after switching on, ≤ 3.6 mA
Diagnostic alarm	Failure signal current output (adjustable): last valid measured value, ≥ 21 mA, ≤ 3.6 mA
Digital communication	HART Version 7 x and multidrop compatible
Modbus	Modbus RTU, Modbus ASCII, Levelmaster
PROFIBUS PA	
Performance	Process reference conditions according to DIN EN 61298-1
Non-linearity	
• Coaxial	
• Single rod probes	
• Interface models	See manual for more details
Resolution and repeatability	Accuracy ± 2 mm (0.08 inch)
Accuracy	
• Coaxial/rod/cable probes	± 2 mm (0.08 inch)
• Interface models	± 5 mm (0.197 inch) (Note: Typical deviation, Interface measurement) See manual for more details
Electromagnetic compatibility (check if needed)	
• Measuring cycle time	< 500 ms
• Step response time	≤ 3 s
• Temperature Effects	The measurement error from the process conditions is in the specified pressure and temperature range of below 1 %
Rated operating conditions	
• Ambient temperature for enclosure	-40 ... +80 °C (-40 ... +176 °F)
• LCD readable temperature range	-40 ... +80 °C (-40 ... +176 °F) with display heated option
• Location	Indoor/outdoor
• Installation category	II
• Pollution degree	2
• Relative Humidity	20 ... 85 %
Medium conditions	
Dielectric constant	dK ≥ 1.4 (configuration dependent) Note: for measurement below 1.4 use probe end tracking.
Process temperature range	-196 ... +450 °C (-321 ... +842 °F)
Vessel pressure	-1 … +400 bar (-100 … +40 000 kPa)

Design	
Instrument weight (dependent on process fitting) - see manual for further details	Approx. 0.8 ... 8 kg (0.176 ... 17.64 lb)
Materials	
• 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
• Degree of protection	• Type 4/NEMA 4, IP65 • Plastic housing IP66/IP67 • Aluminum and stainless steel housings are IP66/68
• Cable inlet	2x M20x1.5 or 2 x ½" NPT
Process connections	
• Pipe thread, cylindrical (ISO 228 T1)	G¾" A, G1" A, G1½" A according to DIN 3852-A
• American pipe thread, conical (ASME B1.20.1)	¾" NPT, 1" NPT, 1½" NPT
• Flanged	DIN from DN 25, ANSI from 1"
• Hygienic	Hygienic fittings
Programming	
Local	Four button, menu-driven data entry
Handheld communicator	Hart communicator
PC	SIMATIC PDM, AMS, PACTware
Power	
2 wire Hart version	9.6 ... 35 V DC
4 wire versions	9.6 … 48 V DC, 20 … 42 V AC, 50/60 Hz and 90 … 253 V AC, 50/60 Hz
Modbus	8 … 30 V DC
PROFIBUS PA	9 … 32 V DC
	Note: see manual for specific power based on ordered options
Certificates and approvals	
Hazardous approvals:	ATEX, FM, CSA, IECex
Hygienic approvals	EHEDG
Overfill protection	WHG
Ship approval	ABS, CCS, GL

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

4

Selection and Ordering data	Article No.	Order Code
SITRANS LG240 ↗	**7ML5880-**	
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		
Ordinary location CE[9)]	0 A	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6[9)]	0 E	
ATEX II 1G,1/2G 2G Ex ia IIC + ATEX II 1D,1/2D, 1/3D, 2D, Ex t IIIC IP66 T[11)13)15)24)]	0 H	
ATEX II 1/2G, 2G Ex d ia IIC T6[1)12)]	0 J	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x[1)11)12)13)15)24)]	0 K	
ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T[11)13)15)24)]	0 N	
IEC Ex ia IIC T6[9)]	0 P	
IEC Ex ia IIC T6 + IEC IP6x T tD[11)13)15)24)]	0 Q	
IEC Ex d ia IIC T6[1)12)]	0 R	
IEC Ex d ia IIC T6 + IEC IP6x T tD[1)11)12)13)15)24)]	0 S	
FM (NI) Class I, Div. 2, Groups A, B, C, D	1 A	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F	1 B	
FM(XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[1)12)]	1 C	
CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP) Class II, III, Div. 1, Groups E, F, G[11)13)15)]	1 E	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	1 F	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[1)12)]	1 G	
Probe version/Material		
Probe cable ø4 mm (0.16 inch) with gravity weight/PFA[2)7)]	A	
Probe exchangeable rod (ø8 mm) / 1.4435 (BN2), can be autoclaved (Ra < 0.76 µm)[3)7)]	B	
Probe exchangeable rod (ø8 mm) / 1.4435 (BN2), (Ra < 0.76 µm)[3)7)]	C	
Probe rod ø10 mm (0.39 inch)/PFA[2)7)]	D	
Process fitting/Material		
Clamp 2" PN 16 (ø64 mm) DIN 32676, ISO2852/1.4435 (BN2)[4)]	0 0	
Clamp 2" PN 16 (ø64 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 1	
Clamp 2 1/2" PN 10 (ø77.5 mm) DIN 32676, ISO2852/1.4435 (BN2)[4)]	0 2	
Clamp 2 1/2" PN 10 (ø77.5 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 3	
Clamp 3" PN 10 (ø91 mm) DIN 32676, ISO2852/1.4435 (BN2)[4)]	0 4	
Clamp 3" PN 10 (ø91 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 5	
Clamp 4" PN6 (ø119 mm) DIN 32676, ISO2852/1.4435(BN2)[4)]	0 6	
Clamp 4" PN6 (ø119 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 7	
Bolting DN 32, PN 40 DIN11851/1.4435(BN2)[4)]	0 8	
Bolting DN 32, PN 40 DIN11851/PTFE-TFM 1600	1 0	
Bolting DN 40, PN 40 DIN11851/1.4435 (BN2)[4)]	1 1	
Bolting DN 40, PN 40 DIN11851/PTFE-TFM 1600	1 2	

Selection and Ordering data	Article No.	Order Code
SITRANS LG240 ↗	**7ML5880-**	
Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids.	■■■■■ - ■■■■	■■■
Bolting DN 50, PN 25 DIN11851/1.4435(BN2)[4)]	1 3	
Bolting DN 50, PN 25 DIN11851/PTFE-TFM 1600	1 4	
Bolting DN 65, PN 25 DIN11851/PTFE-TFM 1600	1 5	
Flange DN 25, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 0	
Flange DN 40, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 1	
Flange DN 50, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 2	
Flange DN 50, PN 40 Form V13, DIN 2513/PTFE-TFM 1600	2 3	
Flange DN 65, PN 40 Form C, DIN 2513/PTFE-TFM 1600	2 4	
Flange DN 80, PN 40 Form C, DIN 2501/PTFE-TFM 1600	2 5	
Flange DN 100, PN 16 Form C, DIN 2501/PTFE-TFM 1600	2 6	
Flange DN 80, PN 40 EN1092-1 Form B1/PTFE-TFM 1600	2 7	
Flange DN 100, PN 40 EN1092-1 Form B1/PTFE-TFM 1600	2 8	
Flange 2" 150 lb RF, ANSI B16.5/PTFE-TFM 1600	3 0	
Flange 2" 300 lb RF, ANSI B16.5/PTFE-TFM 1600	3 1	
Flange 3" 150 lb RF, ANSI B16.5/PTFE-TFM 1600	3 2	
Flange 4" 150 lb RF, ANSI B16.5/PTFE-TFM 1600	3 3	
Note: The pressure limit for all PTFE coated versions is 16 bar (per manual).		
Electronics		
Two-wire 4 ... 20mA/HART	0	
Four-wire Modbus[19)20)21)22)]	1	
Two-wire 4...20mA/HART with SIL qualification[17)18)]	2	
Four-wire 4...20mA/HART; 90...253V AC; 50/60 Hz[1)8)10)]	3	
Four-wire 4...20mA/HART; 9.6...48V DC; 20...42 V AC[1)8)10)]	4	
PROFIBUS PA	5	
Seal/Process temperature		
Without glass seal/-40 ... +150 °C (-40 ... +302 °F)[5)11)]	A	
FFKM (Kalrez 6221)/-20...150 °C (-4... +302 °F)	B	
EPDM (Freudenberg 70 EPDM 291)/ -20 ...130 °C (-4 ... +266 °F)	C	
Housing/Protection/Cable		
Plastic IP66/IP67 M20x1.5/blind stopper	A	
Plastic IP66/IP67 1/2" NPT/blind stopper	B	
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	C	
Aluminium/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	D	
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	E	
Aluminium double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	G	

Selection and Ordering data	Article No.	Order Code		
SITRANS LG240	**7ML5880-**			
Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids.	■■■■■ -	■■■■	■■■	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		H		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		J		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		K		
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		L		
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		M		
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/ cable gland stainless steel		N		
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		P		
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20x1.5/Cable gland stainless steel		Q		
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		R		
Aluminium single chamber / IP66/IP68 (0.2 bar) M20x1.5 / Cable gland brass nickel-plated		W		
Aluminium double chamber / IP66/IP68 (0.2 bar) M20x1.5 / Cable gland brass nickel-plated		X		
Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20x1.5 / Cable gland brass nickel-plated		Y		
Lengths				
Rod ø8 mm (0.31 inch)/1.4435 (Basle standard 300 ... 4 000 mm)				
300 ... 1 000 mm (11.81 ... 39.37 inch)[14]		0		
1 001 ... 2 000 mm (39.41 ... 78.74 inch)[14]		1		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[14]		2		
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[14]		3		
Rod ø10 mm (0.24 inch)/PFA (300 ... 4 000 mm)				
300 mm (11.81 inch)[14]		9	R 1	A
500 mm (19.69 inch)[14]		9	R 1	B
300 ... 1 000 mm (11.81 ... 39.37 inch)[14]		9	R 1	C
1 001 ... 5 000 mm (39.41 ... 78.74 inch)[14]		9	R 1	D
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[14]		9	R 1	E
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[14]		9	R 1	F
Cable ø4 mm (0.16 inch)/PFA (500 ... 32 000 mm)				
500 mm (9.69 inch)		9	R 1	G
501 ... 1 000 mm (19.72 ... 39.37 inch)		9	R 1	H
1 001 ... 2 000 mm (39.37 ... 196.85 inch)		9	R 1	J
2 001 ... 4 000 mm (196.89 ... 393.70 inch)		9	R 1	K
4 001 ... 5 000 mm (393.74 ... 590.55 inch)		9	R 1	L
5 001 ... 10 000 mm (590.59 ... 787.40 inch)		9	R 1	M
10 001 ... 15 000 mm (787.44 ... 984.25 inch)		9	R 1	N
15 001 ... 20 000 mm (984.29 ... 1 181.10 inch)		9	R 1	P
20 001 ... 25 000 mm (1 181.14 ... 1 377.95 inch)		9	R 1	Q
25 001 ... 32 000 mm (1 377.99 ... 1 574.80 inch)		9	R 1	R

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Supplementary electronics	
Without	**A00**
Additional current output 4 ... 20 mA[1)23)]	**A01**
Local display interface	
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**

Selection and Ordering data	Order code
Further designs (optional)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	**Y01**
Enter the total length of rigid part	**Y02**
Cleaning included certificate: oil, grease and silicone free	**W01**
Identification Label (measurement loop) stainless steel	**Y17**
Identification Label (measurement loop) Foil	**Y18**
3.1 Certificate instrument[16)]	**C12**
3.1 Certificate material (NACE0175)[16)]	**D07**
3.1 Certificate instrument with test data[16)]	**C25**
2.2 Certificate material[16)]	**C15**
Quality/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 DIN32514-1 + 3.1 certificate/instrument[16)]	**C60**
Pressure test according to Norsok + 3.1 certificate/instrument[16)]	**C61**
5 point calibration certificate + 3.1 certificate/instrument[16)]	**C62**

SITRANS LG series

Selection and Ordering data	Article No.
Additional Operating Instructions	
German	
4 … 20 mA/HART - two-wire, PFA insulated	**PBD-51041000**
4 … 20 mA/HART - two-wire, Polished version	**PBD-51041001**
4 … 20 mA/HART - four-wire PFA insulated	**PBD-51041002**
4 … 20 mA/HART - four-wire Polished version	**PBD-51041003**
Modbus- PFA insulated	**PBD-51041004**
Modbus protocol, Polished version	**PBD-51041005**
PROFIBUS PA, PFA insulated	**PBD-51041006**
PROFIBUS PA, polished version	**PBD-51041007**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
English	
4 … 20 mA/HART - two-wire PFA insulated	**PBD-51041037**
4 … 20 mA/HART - two-wire Polished version	**PBD-51041038**
4 … 20 mA/HART - four-wire PFA insulated	**PBD-51041039**
4 … 20 mA/HART - four-wire Polished version	**PBD-51041040**
Modbus, PFA insulated	**PBD-51041041**
Modbus protocol, Polished version	**PBD-51041042**
PROFIBUS PA, PFA insulated	**PBD-51041043**
PROFIBUS PA, Polished version	**PBD-51041044**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
French	
4 … 20 mA/HART - two-wire PFA insulated	**PBD-51041111**
4 … 20 mA/HART - two-wire Polished version	**PBD-51041112**
4 … 20 mA/HART - four-wire PFA insulated	**PBD-51041113**
4 … 20 mA/HART - four-wire Polished version	**PBD-51041114**
Modbus, PFA insulated	**PBD-51041115**
Modbus protocol, Polished version	**PBD-51041116**
PROFIBUS PA, PFA insulated	**PBD-51041117**
PROFIBUS PA, Polished version	**PBD-51041118**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
Spanish	
4 … 20 mA/HART - two-wire PFA insulated	**PBD-51041074**
4 … 20 mA/HART - two-wire Polished version	**PBD-51041075**
4 … 20 mA/HART - four-wire PFA insulated	**PBD-51041076**
4 … 20 mA/HART - four-wire Polished version	**PBD-51041077**
Modbus, PFA insulated	**PBD-51041078**
Modbus protocol, Polished version	**PBD-51041079**
PROFIBUS PA, PFA insulated	**PBD-51041080**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	

Selection and Ordering data	Article No.
Accessories	
SITRANS LG, GWR sensor Display Module	**A5E34143449**
SITRANS RD100, loop powered display - see Chapter 7	**7ML5741-...**
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	**7ML5740-...**
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	**7ML5744-...**
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	**7ML5750-...**
For applicable back up point level switch - see point level measurement section	

1) Available with Housing/Protection/Cable options E,F, L, M only
2) Available only with PFA Process Fitting/Material including 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 ø8 mm 1.4435 options)
5) Available with Length options R1A ... R1R only (Rod ø10 mm/PFA and Cable ø4 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 modules E00, E01
9) Available with Supplementary electronic option A01 approval options 0A,0E, and 0P
10) Available with Approval options 0A, 0J, 0K, 0N, 0R, OS, 1A,1 C, 1E, 1F, and 1G
11) Available with Version/Material options A and D only
12) Available with Indicating/adjustment modules E00 and E01
13) Available with Seal/Process temperature C only
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
17) SIL electronic option 2 available with Approval options 0A, 0E, 0H, 0N, 0P, 0Q, 1A, 1B, 1E and 1F
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 option E00, E01
23) Not available with indicating/adjustment module E02
24) Available with Housing/protection options D, F, H and M

Note: Please consult manual for further details.

Selection and Ordering data	Article No.	Order Code
SITRANS LG250 ↗	**7ML5881-**	
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		
Ordinary location CE[16)]	**0 A**	
Shipping approval[19)28)29)]	**0 B**	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6[16)]	**0 E**	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval[19)28)29)]	**0 G**	
ATEX II 1G,1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66[16)23)40)]	**0 H**	
ATEX II 1/2G, 2G Ex d ia IIC T6[1)21)]	**0 J**	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T[1)21)23)40)]	**0 K**	
ATEX II 1/2G, 2G Ex d IIC T6[14)20)]	**0 L**	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T[14)20)23)40)]	**0 M**	
ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T[20)23)40)]	**0 N**	
IEC Ex ia IIC [16)]	**0 P**	
IEC Ex ia IIC T6 + IEC IP6x T tD[16)20)23)40)]	**0 Q**	
IEC Ex d ia IIC T6[1)21)23)40)]	**0 R**	
IEC Ex d ia IIC T6 + IEC IP6x T tD[1)20)21)40)]	**0 S**	
IEC Ex d IIC T6[14)20)]	**0 T**	
IEC Ex d IIC T6 + IEC IP6x T tD[14)20)23)40)]	**0 U**	
FM (NI) Class I, Div. 2, Groups A, B, C, D	**1 A**	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F	**1 B**	
FM(XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[1)21)]	**1 C**	
FM (XP) Class I, Div. 1, Groups A, B, C, D[20)]	**1 D**	
CSA (NI) Class I, Div. 2, Groups A, B, C ,D (DIP) Class II, III, Div. 1, Groups E, F, G	**1 E**	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C,D, E, F, G	**1 F**	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[1)21)]	**1 G**	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[14)20)]	**1 H**	
Probe version/Material		
Probe exchangeable cable ø2 mm (0.08 inch) with gravity weight/316L[8)9)11)26)]	**A**	
Probe exchangeable cable ø2 mm (0.08 inch) center weight/316L[8)9)12)26)]	**B**	
Probe exchangeable cable ø4 mm (0.16 inch) with gravity weight/316L[8)9)11)26)]	**C**	
Probe exchangeable cable ø4 mm (0.16 inch) with center weight/316L[8)9)12)26)]	**D**	
Probe exchangeable rod ø8 mm (0.31 inch)/316L[2)8)10)11)26)]	**E**	
Probe exchangeable rod ø12 mm (0.47 inch)/316L[3)8)10)11)24)26)]	**F**	
Probe coax version ø21.3 mm (0.84 inch) with single hole/316L[8)9)11)26)27)]	**G**	
Probe coax version ø21.3 mm (0.84 inch) with multiple hole/316L[8)9)11)26)27)]	**H**	
Probe coax version ø42.2 mm (1.66 inch) with multiple hole/316L[5)8)9)11)24)26)27)]	**K**	
Process fitting/Material		
Thread G 3/4" (DIN 3852-A) PN 6 / 316L	**0 0**	
Thread 3/4" NPT (ASME B1.20.1) PN 6 / 316L	**0 1**	
Thread G 3/4" (DIN 3852-A) PN 40 / 316L	**0 2**	
Thread 3/4" NPT (ASME B1.20.1) PN 40 / 316L	**0 3**	

Selection and Ordering data	Article No.	Order Code
SITRANS LG250 ↗	**7ML5881-**	
A guided wave radar sensor for continuous level and interface measurement of liquids.	■■■■■ - ■■■■	■■■
Thread G 3/4" (DIN 3852-A) PN 100 / 316L	**0 4**	
Thread 3/4" NPT (ASME B1.20.1) PN 100 / 316L	**0 5**	
Thread G 1" (DIN 3852-A) PN 40 / 316L	**0 6**	
Thread 1" NPT (ASME B1.20.1) PN 40 / 316L	**0 7**	
Thread G 1" (DIN 3852-A) PN 100 / 316L	**0 8**	
Thread 1" NPT (ASME B1.20.1) PN 100 / 316L	**1 0**	
Thread G 1 1/2" (DIN 3852-A) PN 40 / 316L	**1 1**	
Thread 1 1/2" NPT (ASME B1.20.1) PN 40 / 316L	**1 2**	
Thread G1 1/2" (DIN 3852-A) PN1 00 / 316L	**1 3**	
Thread 1 1/2" NPT (ASME B1.20.1) PN 100 / 316L	**1 4**	
Thread 2 NPT PN 40, ASME B1.20.1 / 316L[37)38)]	**1 5**	
Flange DN 25 PN 40 Form C, DIN 2501 / 316L	**2 0**	
Flange DN 25 PN 40 Form F, DIN 2501 / 316L	**2 1**	
Flange DN 40 PN 40 Form C, DIN 2501 / 316L	**2 2**	
Flange DN 50 PN 40 Form C, DIN 2501 / 316L	**2 3**	
Flange DN 50 PN 40 form V13, DIN 2513 / 316L	**2 4**	
Flange DN 80 PN 40 Form C, DIN 2501 / 316L	**2 5**	
Flange DN 80 PN 40 Form V13, DIN 2501 / 316L	**2 6**	
Flange DN 100 PN 16 Form C, DIN 2501 / 316L	**2 7**	
Flange DN 100 PN 16 Form C, DIN 2501 / 316L	**2 8**	
Flange DN 100PN 40 Form C, DIN 2501 / 316L	**3 0**	
Flange DN 100 PN 40 Form V13, DIN 2513 / 316L	**3 1**	
Flange DN 150 PN 16 Form C, DIN 2501 / 316L	**3 2**	
Flange DN 50 PN 40 EN1092-1 Form B1 / 316L	**3 3**	
Flange DN 80 PN 40 EN1092-1 Form B1 / 316L	**3 4**	
Flange 1 1/2" 150 lb RF, ANSI B16.5 / 316L	**3 5**	
Flange 2" 150 lb RF, ANSI B16.5 / 316L	**3 6**	
Flange 2" 300 lb RF, ANSI B16.5 / 316L	**3 7**	
Flange 3" 150 lb RF, ANSI B16.5 / 316L	**3 8**	
Flange 3" 300 lb RF, ANSI B16.5 / 316L	**4 0**	
Flange 4" 150 lb RF, ANSI B16.5 / 316L	**4 1**	
Flange 4" 300 lb RF, ANSI B16.5 / 316L	**4 2**	
Flange 6" 150 lb RF, ANSI B16.5 / 316L	**4 3**	
Flange 6" 300lb RF, ANSI B16.5 / 316L	**4 4**	
Flange 1 1/2" 150 lb RF, ANSI B16.5 / 316L	**4 5**	
Electronics		
Two-wire 4 ... 20mA/HART	**0**	
Four-wire Modbus[33)34)35)36)]	**1**	
Two-wire 4...20mA/HART with SIL qualification[24)32)]	**2**	
Four-wire 4...20mA/HART; 90...253V AC; 50/60Hz[1)15)17)]	**3**	
Four-wire 4...20mA/HART; 9.6...48V DC; 20...42V AC[1)15)17)]	**4**	
PROFIBUS PA	**5**	

4

Selection and Ordering data	Article No.	Order Code
SITRANS LG250 ↗	**7ML5881-**	
A guided wave radar sensor for continuous level and interface measurement of liquids.	■■■■■ -	■■■■ ■■■
Seal/Second line of defense/ Process temperature		
FKM (SHS FPM 70C3 GLT)/ without glass seal/-40 ... +80 °C (-40 ... +176 °F)[6]		**A**
FKM (SHS FPM 70C3 GLT)/ without glass seal/ -40 ... +150 °C (-40 ... +302 °F)		**B**
FKM (SHS FPM 70C3 GLT)/ with glass seal/ -40 ... +150 °C (-40 … +302°F)		**C**
EPDM (A+P 75.5/KW75F)/ without glass seal/ -40 ... +80 °C (-40 ... +176 °F)		**D**
EPDM (A+P 75.5/KW75F)/ with glass seal/ -40 ... +150 °C (-40 ... +302 °F)		**E**
FFKM (Kalrez 6375)/ with glass seal/ -20 ... +200 °C (-4 ... +392 °F)		**F**
EPDM (A+P 75.5/KW75F)/ without glass seal/ -40 ... +80 °C (-40 ... +176 °F)[6]		**G**
EPDM (A+P 75.5/KW75F)/ without glass seal/ -40 ... +150 °C (-40 ... +302 °F)		**H**
EPDM (A+P 75.5/KW75F)/ with glass seal/ -40 ... +150 °C (-40 ... +302 °F)		**J**
Silicone FEP coated (A+P FEP-O-SEAL)/ without glass seal/ -40 ... +80 °C (-40 ... +176 °F)[6]		**K**
Silicone FEP coated (A+P FEP-O-SEAL)/ without glass seal/ -40 ... +150 °C (-40 ... +302 °F)		**L**
Silicone FEP coated (A+P FEP-O-SEAL)/ with glass seal/ -40 ... +150 °C (-40 ... +302 °F)		**M**
With borosilicate glass lead through/ with glass seal/ -60 ... +150 °C (-76 ... +302 °F)[7]		**N**
FFKM (Kalrez 6375)/ without glass seal/ -20 … +200 °C (-4 ... +392 °F)		**P**
FKM (SHS FPM 70C3 GLT)/ with glass seal/ -40 ... 80 °C (-40 ... +176 °F)[6]		**Q**
Housing/Protection/Cable		
Plastic IP66/IP67 M20x1.5/blind stopper		**A**
Plastic IP66/IP67 1/2" NPT/blind stopper		**B**
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		**C**
Aluminium/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		**D**
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		**E**
Aluminium double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		**F**
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20x1.5/blind stopper		**L**
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		**M**
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20x1.5/blind stopper		**N**
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper		**P**
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		**Q**
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		**R**
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/ cable gland stainless steel		**S**
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		**T**

Selection and Ordering data	Article No.	Order Code
SITRANS LG250 ↗	**7ML5881-**	
A guided wave radar sensor for continuous level and interface measurement of liquids.	■■■■■ -	■■■■ ■■■
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20x1.5/cable gland stainless steel		**U**
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20x1.5/cable gland stainless steel		**V**
Aluminium single chamber / IP66/IP68 (0.2 bar) M20x1.5 / Cable gland brass nickel-plated		**W**
Aluminium double chamber / IP66/IP68 (0.2 bar) M20x1.5 / Cable gland brass nickel-plated		**X**
Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20x1.5 / Cable gland brass nickel-plated		**Y**
Lengths		
Rod ø8 mm/316L		
300 ... 1 000 mm (11.81 ... 39.37 inch)[22]		**0**
1 001 ... 2 000 mm (39.41 ... 78.74 inch)[22]		**1**
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[22]		**2**
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[22]		**3**
4 001 ... 5 000 mm (157.52 ... 196.85 inch)[22]		**4**
5 001 ... 6 000 mm (196.89 ... 236.22 inch)[22]		**5**
Rod ø12 mm/316L		
300 ... 1 000 mm (11.81 ... 39.37 inch)[22]		**9 R 2 A**
1 001 ... 2 000 mm (39.41 ... 196.85 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**
Cable lengths ø2 or 4 mm/316L		
501 ... 1 000 mm (19.72 ... 39.37 inch)		**9 R 2 E**
1 000 ... 5 000 mm (39.37 ... 196.85 inch)		**9 R 2 F**
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		**9 R 2 G**
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		**9 R 2 H**
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		**9 R 2 J**
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		**9 R 2 K**
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		**9 R 2 L**
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		**9 R 2 M**
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		**9 R 2 N**
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		**9 R 2 P**
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		**9 R 2 Q**
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		**9 R 2 R**
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		**9 R 2 S**
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)		**9 R 2 T**
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)		**9 R 2 U**
70 001 ... 75 000 mm (2 759.94 ... 2 952.76 inch)		**9 R 2 V**

Selection and Ordering data	Article No.	Order Code
SITRANS LG250 ↗	**7ML5881-**	
A guided wave radar sensor for continuous level and interface measurement of liquids.	■■■■■ - ■■■■	■■■
Coax ø21.3 mm/316L		
300 ... 1 000 mm (11.81 ... 39.37 inch)[22]		**9 R 3 A**
1 001 ... 2 000 mm (39.41 ... 78.74 inch)[22]		**9 R 3 B**
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[22]		**9 R 3 C**
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[22]		**9 R 3 D**
4 001 ... 5 000 mm (157.52 ... 196.85 inch)[22]		
5 001 … 6 000 mm (196.89 … 236.22 inch)[22]		**9 R 3 F**
Coax ø42.2 mm/316L		
300 ... 1 000 mm (11.81 ... 39.37 inch)[22]		**9 R 3 G**
1 001 ... 2 000 mm (39.41 ... 78.74 inch)[22]		**9 R 3 H**
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[22]		**9 R 3 J**
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[22]		**9 R 3 K**
4 001 ... 5 000 mm (157.52 … 196.85 inch)[22]		**9 R 3 L**
5 001 … 6 000 mm (196.89 … 236.22 inch)[22]		**9 R 3 M**

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Supplementary electronics	
Without[13]	**A00**
Additional current output 4 ... 20 mA[1)39]	**A01**
Dimensions centering weight (diameter/height)	
Without	**B00**
ø40/30 mm	**B01**
ø45/30 mm (for 2 inch tubes)	**B02**
ø75/30 mm (for 3 inch tubes)	**B03**
ø95/30 mm (for 4 inch tubes)	**B04**
ø1.57/1.18 inch (for 2 inch schedule 160)	**B05**
ø1.77/1.18 inch (for 2 inch schedule 40/80)	**B06**
ø2.95/1.18 inch (for 3 inch schedule 10/40)	**B07**
ø3.74/1.18 inch (for 4 inch schedule 80)	**B08**
Rod mounted	
Without Rod, applicable for coax or cable probe types only[18]	**C00**
Mounted	**C01**
Not mounted	**C02**
Local display interface	
Without[13]	**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**

Selection and Ordering data	Order code
Further designs (optional)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	**Y01**
Enter the total length of rigid part	**Y02**
Cleaning included certificate: oil, grease and silicone free	**W01**
Identification Label (measurement loop) stainless steel	**Y17**
Identification Label (measurement loop) Foil	**Y18**
3.1 Certificate instrument[30]	**C12**
3.1 Certificate material (NACE0175)[30]	**D07**
3.1-Certificate instrument with test data[30]	**C25**
2.2-Certificate material[30]	**C15**
Quality/test plan[30]	**C26**
Dye penetration test + 3.1 certificate/instrument[30]	**C13**
X-ray test + 3.1 certificate/instrument[30]	**C14**
Positive material identification test + 3.1 certificate/instrument[30]	**C16**
Roughness test + 3.1 certificate/instrument[30]	**C18**
Pressure test + 3.1 certificate/instrument[30]	**C31**
Helium leak test + 3.1 certificate/instrument[30]	**C32**
Ferrite measuring accuracy to DIN32514-1 + 3.1 certificate/instrument[30]	**C60**
Pressure test according to Norsok + 3.1 certificate/instrument[30]	**C61**
5 point calibration certificate + 3.1 certificate/instrument[30)41]	**C62**
Additional Operating Instructions	Article No.
German	
4 … 20 mA/HART - two-wire	**PBD-51041010**
4 … 20 mA/HART - two-wire coax probe	**PBD-51041011**
4 … 20 mA/HART - four-wire	**PBD-51041012**
4 … 20 mA/HART - four-wire coax probe	**PBD-51041013**
Modbus	**PBD-51041014**
Modbus- coax probe	**PBD-51041015**
PROFIBUS PA	**PBD-51041016**
PROFIBUS PA - coax probe	**PBD-51041017**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
English	
4 … 20 mA/HART - two-wire	**PBD-51041047**
4 … 20 mA/HART - two-wire Coax probe	**PBD-51041048**
4 … 20 mA/HART - four-wire	**PBD-51041049**
4 … 20 mA/HART - four-wire Coax probe	**PBD-51041050**
Modbus	**PBD-51041051**
Modbus - coax probe	**PBD-51041052**
PROFIBUS PA	**PBD-51041053**
PROFIBUS PA - coax probe	**PBD-51041054**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	

SITRANS LG series

Selection and Ordering data	Article No.
French	
4 … 20 mA/HART - two-wire	**PBD-51041121**
4 … 20 mA/HART - two-wire Coax probe	**PBD-51041122**
4 … 20 mA/HART - four-wire	**PBD-51041123**
4 … 20 mA/HART - four-wire Coax probe	**PBD-51041124**
Modbus	**PBD-51041125**
Modbus- coax probe	**PBD-51041126**
PROFIBUS PA	**PBD-51041127**
PROFIBUS PA - coax probe	**PBD-51041128**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
Spanish	
4 … 20 mA/HART - two-wire	**PBD-51041084**
4 … 20 mA/HART - two-wire Coax probe	**PBD-51041085**
4 … 20 mA/HART - four-wire	**PBD-51041086**
4 … 20 mA/HART - four-wire Coax probe	**PBD-51041087**
Modbus	**PBD-51041088**
Modbus- Coax probe	**PBD-51041089**
PROFIBUS PA	**PBD-51041090**
PROFIBUS PA - coax probe	**PBD-51041091**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
Accessories	
SITRANS LG, GWR sensor Display Module	**A5E34143449**
SITRANS RD100, loop powered display - see Chapter 7	**7ML5741-...**
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	**7ML5740-...**
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	**7ML5744-...**
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	**7ML5750-...**
For applicable back up point level switch - see point level measurement section	

1) Available with Housing/Protection cable options E, F, Q, and R only
2) Not available with Process fitting/Material options 04, 05, 08, 10, 13, and 14
3) Available only 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)
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, 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 modules E00, E01
16) Available with Supplementary electronic option A01 and Approval options 0A,0E, and 0P
17) Not Available with Approval options 0B ... 0H 0P, 0Q,1B, and 1F (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 modules E00 and E01
22) Not available with Y02
23) Available with Housing/Protection options C, D, E, F, L, M, Q, R (dust approvals)
24) SIL electronics option 2 available with Approval options 0A, 0E, 0G, 0H, 0L, 0M, 0N, 0P, 0U, 0Q, 0T, 1A, 1B, 1D, 1E, 1F and 1H
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
34) Available with housings/protection/cable options E,F,L,M and P
35) Available with supplementary electronic option A00
36) Available with Indicating/adjustment module option 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 Indicating/adjustment module 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

Note: Please consult manual for further details.

Selection and Ordering data	Article No.	Order Code
SITRANS LG260 ↗	**7ML5882-**	
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		
Ordinary location CE[4)12)]	0 A	
Shipping approval[9)10)]	0 B	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6[4)12)]	0 E	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval[9)]	0 G	
ATEX II 1G,1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T[8)10)12)21)]	0 H	
ATEX II 1/2G, 2G Ex d ia IIC T6[1)7)12)]	0 J	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval[1)7)9)10)]	0 L	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66[7)8)12)21)]	0 M	
ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66[11)12)]	0 N	
ATEX II 1/2G, 2G Ex d IIC + shipping approval[9)10)11)]	0 Q	
ATEX II 1/2G 2G Ex d IIC + II 1D, 1/2D, 1/3D, 2D IP66[8)11)12)21)]	0 R	
ATEX II 1D, 1/2D, 2D IP6x T[8)11)12)21)]	0 S	
IEC Ex ia IIC T6[4)12)]	0 T	
IEC Ex ia IIC T6 + IEC IP6x T tD[8)11)12)21)]	0 U	
IEC Ex d ia IIC T6[1)7)12)]	1 A	
IEC Ex d ia IIC T6 + IEC IP6x T tD[7)8)12)21)]	1 B	
IEC Ex d IIC T6[11)12)]	1 C	
IEC Ex d IIC T6 + IEC IP6x T tD[8)11)12)21)]	1 D	
FM (NI) Class I, Div. 2, Groups A, B, C, D[12)]	1 F	
FM (NI) Class I, Div. 2, Groups A, B, C, D + shipping approval[9)10)]	1 G	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F[12)]	1 H	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval[9)10)]	1 J	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[1)7)12)]	1 K	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval[1)7)9)10)]	1 L	
FM (XP) Class I, Div. 1, Groups A, B, C, D[11)12)]	1 M	
CSA (NI) Class I, Div. 2,Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G[8)12)]	1 N	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[12)]	1 P	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[1)7)12)]	1 Q	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G[11)12)]	1 R	
Probe version/Material		
Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316	A	
Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316[2)]	B	
Probe exchangeable rod ø 16 mm (0.63 inch) / 316L[2)6)]	E	
Process fitting/Material		
Thread G 3/4" (DIN 3852-A) PN 40/316L	0 0	
Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	0 1	
Thread G 1" (DIN 3852-A) PN 40/316L	0 2	
Thread 1" NPT (ASME B1.20.1) PN 40/316L	0 3	
Thread G 1 1/2" (DIN 3852-A) PN 40/316L	0 4	
Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	0 5	
Thread G 2" (DIN 3852-A) PN 40/316L	0 6	
Flange DN 50 PN 40 Form C, DIN 2501/316L	1 0	
Flange DN 80 PN 40 Form C, DIN 2501/316L	1 2	
Flange DN 100 PN 16 Form C, DIN 2501/316L	1 3	
Flange DN 100 PN 40 Form C, DIN 2501/316L	1 4	
Flange DN 150 PN 16 Form C, DIN 2501/316L	1 5	
Flange DN 50 PN 40 EN1092-1 Form B1/316L	1 6	
Flange DN 80 PN 40 EN1092-1 Form B1/316L	1 7	
Flange DN 100 PN16 EN1092-1 Form B1/316L	1 8	
Flange 2" 150 lb RF, ANSI B16.5/316L	3 0	
Flange 2" 300 lb RF, ANSI B16.5/316L	3 2	
Flange 3" 150 lb RF, ANSI B16.5/316L	3 3	
Flange 3" 300 lb RF, ANSI B16.5/316L	3 4	
Flange 4" 150 lb RF, ANSI B16.5/316L	3 5	
Flange 4" 300 lb RF, ANSI B16.5/316L	3 6	
Flange 6" 150 lb RF, ANSI B16.5/316L	3 7	
Electronics		
Two-wire 4 ... 20mA/HART	0	
Four-wire Modbus[16)17)18)19)]	1	
Two-wire 4...20mA/HART with SIL qualification[14)15)]	2	
Four-wire 4...20mA/HART; 90...253V AC; 50/60Hz[1)3)5)]	3	
Four-wire 4...20mA/HART; 9.6...48V DC; 20...42 V AC[1)3)5)]	4	
PROFIBUS PA	5	
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	
EPDM (A+P 75.5/KW75F)/-40 ... +80 °C (-40 ... +176 °F)	D	
EPDM (A+P 75.5/KW75F)/-40 ... +150 °C (-40 ... +392 °F)	E	
Housing/Protection/Cable		
Plastic IP66/IP67 M20x1.5/blind stopper	A	
Plastic IP66/IP67 1/2" NPT/blind stopper	B	
Plastic 2-chamber/IP66/IP67/M20x1.5/blind stopper	C	
Plastic 2-chamber/IP66/IP67 /1/2" NPT/blind stopper	D	
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	E	
Aluminium/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F	
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	G	
Aluminium double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	H	
Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	J	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	K	

4

Selection and Ordering data	Article No.	Order Code
SITRANS LG260 ↗	**7ML5882-**	
A guided wave radar sensor for level measurement of solids.	■■■■■ - ■■■■	■■■
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		**L**
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		**M**
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper		**N**
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		**P**
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/ cable gland stainless steel		**Q**
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		**R**
Stainless steel (precision casting) 316L/ IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		**S**
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20x1.5/cable gland stainless steel		**T**
Aluminium single chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland brass nickel-plated		**W**
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland brass nickel-plated		**X**
Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20x1.5/cable gland brass nickel-plated		**Y**
Lengths		
Rod ø16 mm/316L		
500 mm (19.69 inch)		**0**
501 ... 1 000 mm (19.72 ... 39.37 inch)		**1**
1 001 ... 2 000 mm (39.41 ... 78.74 inch)		**2**
2 001 ... 3 000 mm (78.78 ... 118.11 inch)		**3**
3 001 ... 4 000 mm (118.15 ... 157.48 inch)		**4**
4 001 ... 5 000 mm (157.52 ... 196.85 inch)		**5**
5 001 ... 6 000 mm (196.89 ... 216.53 inch)		**6**
Cable lengths ø2 or 4 mm/316		
501 ... 1 000 mm (19.72 ... 39.37 inch)		**9 R 2 E**
1 001 ... 5 000 mm (39.41 ... 196.85 inch)		**9 R 2 F**
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		**9 R 2 G**
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		**9 R 2 H**
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		**9 R 2 J**
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		**9 R 2 K**
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		**9 R 2 L**
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		**9 R 2 M**
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		**9 R 2 N**
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		**9 R 2 P**
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		**9 R 2 Q**
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		**9 R 2 R**
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		**9 R 2 S**
Cable lengths ø6 mm/316L		
500 mm (19.69 inch)		**9 R 4 A**
501 ... 1 000 mm (19.72 ... 39.37 inch)		**9 R 4 B**
1 001 ... 5 000 mm (39.41 ... 196.85 inch)		**9 R 4 C**
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		**9 R 4 D**

Selection and Ordering data	Article No.	Order Code
SITRANS LG260 ↗	**7ML5882-**	
A guided wave radar sensor for level measurement of solids.	■■■■■ - ■■■■	■■■
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		**9 R 4 E**
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		**9 R 4 F**
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		**9 R 4 G**
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		**9 R 4 H**
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		**9 R 4 J**
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		**9 R 4 K**
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		**9 R 4 L**
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		**9 R 4 M**
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		**9 R 4 N**
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		**9 R 4 P**

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Supplementary electronics	
Without[1]	**A00**
Additional current output 4 ... 20 mA[1)20)]	**A01**
Rod mounted	
Without Rod, applicable for coax or cable probe types only	**C00**
Mounted	**C01**
Not mounted	**C02**
Local display interface	
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**

Selection and Ordering data	Order code
Further designs (optional)	Order code
Please add "**-Z**" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	**Y01**
Cleaning included certificate: oil, grease and silicone free	**W01**
Identification Label (measurement loop) stainless steel	**Y17**
Identification Label (measurement loop) Foil	**Y18**
3.1 Certificate instrument[13)]	**C12**
3.1 Certificate material (NACE0175)[13)]	**D07**
3.1-Certificate instrument with test data[13)]	**C25**
2.2-Certificate material[13)]	**C15**
Quality/test plan[13)]	**C26**
Dye penetration test + 3.1 certificate/instrument[13)]	**C13**
X-ray test + 3.1 certificate/instrument[13)]	**C14**
Positive material identification test + 3.1 certificate/instrument [13)]	**C16**
Roughness test + 3.1 certificate/instrument[13)]	**C18**
Pressure test + 3.1 certificate/instrument[13)]	**C31**
Helium leak test + 3.1 certificate/instrument[13)]	**C32**
Ferrite measuring accuracy to DIN32514-1 + 3.1 certificate/instrument[13)]	**C60**
Pressure test according to Norsok + 3.1 certificate/instrument[13)]	**C61**
5 point calibration certificate + 3.1 certificate/instrument[13)]	**C62**
Operating Instructions	Article No.
German	
4 … 20 mA/HART - two-wire	**PBD-51041020**
4 … 20 mA/HART - four-wire	**PBD-51041021**
Modbus	**PBD-51041022**
PROFIBUS PA	**PBD-51041023**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
English	
4 … 20 mA/HART - two-wire	**PBD-51041057**
4 … 20 mA/HART - four-wire	**PBD-51041058**
Modbus	**PBD-51041059**
PROFIBUS PA	**PBD-51041060**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
French	
4 … 20 mA/HART - two-wire	**PBD-51041131**
4 … 20 mA/HART - four-wire	**PBD-51041132**
Modbus	**PBD-51041133**
PROFIBUS PA	**PBD-51041134**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	

Selection and Ordering data	Article No.
Spanish	
4 … 20 mA/HART - two-wire	**PBD-51041094**
4 … 20 mA/HART - four-wire	**PBD-51041095**
Modbus	**PBD-51041096**
PROFIBUS PA	**PBD-51041097**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
Accessories	
SITRANS LG, GWR sensor Display Module	**A5E34143449**
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 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 modules E00, E01
4) Available with Supplementary electronic option A01
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 modules E00 and E01
8) Available with Housing Protection options E, F, G, H, J, K, N, P
9) Not available with Housing/Protection/Cable options L, M, and T
10) Available with Electronic option 0 only
11) Available with Seal/Process temperature option C only
12) Available with Version/Material option E only
13) Listed Certificates are not available with all configurations, please contact factory for more information
14) SIL electronics option 2 available with Approval options 0A, 0E, 0G, 0H, 0N, 0Q, 0R, 0S, 0T, 0U, 1C, 1D, 1F, 1H, 1M, 1N, 1P, and 1R
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 option E00, E01
20) Not available with Indicating/adjustment module E02
21) Available with Housing Protection F, H, P and K

Note: Please consult manual for further details.

4

Selection and Ordering data	Article No. Order Code
SITRANS LG270 ↗	**7ML5883-**
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	
Ordinary location CE[3)]	0 A
Shipping approval[17)18)19)]	0 B
ATEX II 1G, 1/2G, 2G Ex ia IIC T6[3)]	0 E
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)]	0 H
ATEX II 1/2G, 2G Ex d ia IIC T6[1)10)14)]	0 J
ATEX II 1/2G, 2G Ex d ia IIC + ship[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)]	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)]	0 R
ATEX II 1D, 1/2D, 2D IP6x T[16)28)]	0 S
IEC Ex ia IIC T6[3)]	0 T
IEC Ex ia IIC T6 + IEC IP6x T tD[16)28)]	0 U
IEC Ex d ia IIC T6[1)10)14)]	1 A
IEC Ex d ia IIC T6 + IEC IP6x T tD[10)14)16)28)]	1 B
IEC Ex d IIC T6[11)]	1 C
IEC Ex d IIC T6 + IEC IP6x T tD[11)16)28)]	1 D
FM (NI) Class I, Div. 2, Groups A, B, C, D	1 F
FM (NI) Class I, Div. 2, Groups A, B, C, D + ship approval[17)18)19)]	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[16)]	1 N
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	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
Version/Material	
Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316L[4)7)]	A
Probe exchangeable cable ø2 mm (0.08 inch) center weight/316L [5)7)]	B
Probe exchangeable cable ø4 mm (0.16 inch) with gravity weight/316L[4)7)]	C
Probe exchangeable cable ø4 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)]	G

Selection and Ordering data	Article No. Order Code
SITRANS LG270 ↗	**7ML5883-**
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications	
Process fitting/Material	
Thread G 1 1/2" (DIN 3852-A) PN400/316L	0 0
Thread 1 1/2" NPT (ASME B1.20.1) PN400/ 316L	0 1
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	1 5
Flange DN 100 PN 16 Form C, DIN 2501/ 316L	1 6
Flange DN 100 PN 16 Form C, DIN 2501/ 316L	1 7
Flange DN 100 PN 40 Form C, DIN 2501/ 316L	1 8
Flange DN 100 PN 40 Form V13, DIN 2513/ 316L	2 0
Flange DN 150 PN 16 Form C, DIN 2501/ 316L	2 1
Flange DN 50 PN 40 EN1092-1 Form B1/ 316L	2 2
Flange DN 100 PN 160 GOST 12815-80.7/ 316L	2 3
Flange DN 80 PN 160 Form C, DIN 2501/ 316L	6 0
Flange DN 80 PN 250 Form L, DIN 2501/ 316L	6 1
Flange DN 50 PN 160, EN1092-1 Form B1/ 316L	6 2
Flange DN 50 PN 160, EN1092-1 Form B2/ 316L	6 3
Flange DN 50 PN 320, EN1092-1 Form B1/ 316L	6 4
Flange DN 65 PN 250, EN1092-1 Form B1/ 316L	6 5
Flange DN 100 PN 160, EN1092-1 Form B2/ 316L	6 6
Flange 2" 150 lb RF, ANSI B16.5/316L	3 0
Flange 2" 300 lb RF, ANSI B16.5/316L	3 1
Flange 2" 600 lb RF, ANSI B16.5/316L	3 2
Flange 2" 1 500 lb RF, ANSI B16.5/316L	3 3
Flange 3" 150 lb RF, ANSI B16.5/316L	3 4
Flange 3" 300 lb RF, ANSI B16.5/316L	3 5
Flange 3" 600 lb RF, ANSI B16.5/316L	3 6
Flange 3" 900 lb RF, ANSI B16.5/316L	3 7
Flange 3" 2 500 lb RF, ANSI B16.5/316L	3 8
Flange 3 1/2" 600 lb RF, ANSI B16.5/316L	4 0
Flange 4" 150 lb RF, ANSI B16.5/316L	4 1
Flange 4" 300 lb RF, ANSI B16.5/316L	4 2
Flange 4" 600 lb RF, ANSI B16.5/316L	4 3
Flange 6" 150 lb RF, ANSI B16.5/316L	4 4
Flange 6" 300 lb RF, ANSI B16.5/316L	4 5
Flange 6" 600 lb RF, ANSI B16.5/316L	4 6
Flange 2"150 lb Fisher special return/316L	4 7
Flange 2" 900 lb RF, ANSI B16.5/316L	5 0
Flange 3" 1 500 lb RF, ANSI B16.5/316L	5 1

Selection and Ordering data	Article No. Order Code
SITRANS LG270 ↗	**7ML5883-**
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications	■■■■■ - ■■■■ ■■■
Flange 4" 900 lb RF, ANSI B16.5/316L	5 2
Flange 4" 1 500 lb RF, ANSI B16.5/316L	5 3
Flange 4" 2 500 lb RJF, ANSI B16.5/316L	5 4
Electronics	
Two-wire 4 ... 20mA/HART	0
Four-wire Modbus[23)24)25)26)]	1
Two-wire 4... 20mA/HART with SIL qualification[21)22)]	2
Four-wire 4... 20mA/HART; 90 ... 253V AC; 50/60Hz[1)2)6)]	3
Four-wire 4 ... 20mA/HART; 9.6 ... 48V DC; 20 ... 42 V AC[1)2)6)]	4
PROFIBUS PA	5
Seal/Second line of defense/ Process temperature	
Ceramic-graphite/with glass seal/ -196 ... +280 °C (-321 ... +536 °F)	A
Ceramic-graphite /with glass seal/ -196 ... +450 °C (-321 ... +842 °F)	B
Housing/Protection/Cable	
Plastic IP66/IP67 M20x1.5/blind stopper	A
Plastic IP66/IP67 1/2" NPT/blind stopper	B
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	C
Aluminium/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	D
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	E
Aluminium double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20x1.5/blind stopper	L
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper	M
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20x1.5/blind stopper	N
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper	P
Stainless steel double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	Q
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	R
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/ cable gland stainless steel	S
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel	T
Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20x1.5/cable gland stainless steel	U
Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20x1.5/cable gland stainless steel	V
Aluminium single chamber / IP66/IP68 (0.2 bar) M20x1.5/cable gland brass nickel-plated	W
Aluminium double chamber / IP66/IP68 (0.2 bar) M20x1.5/cable gland brass nickel-plated	X
Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20x1.5/cable gland brass nickel-plated	Y

Selection and Ordering data	Article No. Order Code
SITRANS LG270 ↗	**7ML5883-**
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications	■■■■■ - ■■■■ ■■■
Lengths	
300 mm (11.81 inch)[15)]	0
500 mm (19.69 inch)[15)]	1
501 ... 1 000 mm (19.72 ... 39.37 inch)[15)]	2
1 001 ... 2 000 mm (39.41 ... 78.74 inch)[15)]	3
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[15)]	4
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[15)]	5
4 001 ... 5 000 mm (157.52 ... 196.85 inch)[15)]	6
5 001 ... 6 000 mm (196.89 ... 216.53 inch)[15)]	7
300 mm (11.81 inch)[15)]	9
Cable lengths ø2 or 4 mm/316L	
501 ... 1 000 mm (19.72 ... 39.37 inch)	9 R 2 E
1 000 ... 5 000 mm (39.37 ... 196.85 inch)	9 R 2 F
5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9 R 2 G
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9 R 2 H
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9 R 2 J
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9 R 2 K
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9 R 2 L
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9 R 2 M
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9 R 2 N
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9 R 2 P
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9 R 2 Q
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9 R 2 R
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9 R 2 S
Coax ø42.2 mm/316L	
300 ... 1 000 mm (11.81 ... 39.37 inch)[15)]	9 R 3 G
1 001 ... 2 000 mm (39.41 ... 78.74 inch)[15)30)]	9 R 3 H
2 001 ... 3 000 mm (78.78 ... 118.11 inch)[15)]	9 R 3 J
3 001 ... 4 000 mm (118.15 ... 157.48 inch)[15)]	9 R 3 K
4 001 ... 5 000 mm (157.52 ... 196.85 inch)[15)]	9 R 3 L
5 001 ... 6 000 mm (196.89 ... 236.22 inch)[15)]	9 R 3 M

4

4

Selection and Ordering data	Order code
Further designs (mandatory)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Supplementary electronics	
Without	**A00**
Additional current output 4 ... 20 mA[1)27)]	**A01**
Dimensions centering weight (diameter/height)	
Without	**B00**
ø40/30 mm	**B01**
ø45/30 mm (for 2 inch tubes)	**B02**
ø75/30 mm (for 3 inch tubes)	**B03**
ø95/30 mm (for 4 inch tubes)	**B04**
ø1.57/1.18 inch (for 2 inch schedule 160)	**B05**
ø1.77/ 1.18 inch (for 2 inch schedule 40/80)	**B06**
ø2.95/1.18 inch (for 3 inch schedule 10/40)	**B07**
ø3.74/ 1.18 inch (for 4 inch schedule 80)	**B08**
Rod mounted	
Without Rod, applicable for coax or cable probe types only[8)]	**C00**
Mounted	**C01**
Not mounted	**C02**
Local display interface	
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**
Russian	**L07**
Chinese	**L08**
Japanese	**L09**

Selection and Ordering data	Order code
Further designs (optional)	
Please add "**-Z**" to Article No. and specify Order code(s).	
Enter the total insertion length in plain text description	**Y01**
Enter the total length of rigid part [to a maximum of 100 mm (4 inch) (cable version only)]	**Y02**
Cleaning included certificate: oil, grease and silicone free	**W01**
Identification Label (measurement loop) stainless steel	**Y17**
Identification Label (measurement loop) Foil	**Y18**
3.1 Certificate instrument[20)]	**C12**
3.1 Certificate material (NACE0175)[20)]	**D07**
3.1-Certificate instrument with test data[20)]	**C25**
2.2-Certificate material[20)]	**C15**
Quality/test plan[20)]	**C26**
Dye penetration test + 3.1 certificate/instrument[20)]	**C13**
X-ray test + 3.1 certificate/instrument[20)]	**C14**
Positive material identification test + 3.1 certificate/instrument[20)]	**C16**
Roughness test + 3.1 certificate/instrument[20)]	**C18**
Pressure test + 3.1 certificate/instrument[20)]	**C31**
Helium leak test + 3.1 certificate/instrument[20)]	**C32**
Ferrite measuring accuracy to DIN32514-1 + 3.1 certificate/instrument[20)]	**C60**
Pressure test according to Norsok + 3.1 certificate/instrument[20)]	**C61**
5 point calibration certificate + 3.1 certificate/instrument[20)29)]	**C62**
Additional Operating Instructions	Article No.
German	
4 … 20 mA/HART - two-wire	**PBD-51041025**
4 … 20 mA/HART - two-wire coax probe	**PBD-51041026**
4 … 20 mA/HART - four-wire	**PBD-51041027**
4 … 20 mA/HART - four-wire coax probe	**PBD-51041028**
Modbus	**PBD-51041029**
Modbus, Coax probe	**PBD-51041030**
PROFIBUS PA	**PBD-51041031**
PROFIBUS PA, Coax probe	**PBD-51041032**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
English	
4 … 20 mA/HART - two-wire	**PBD-51041062**
4 … 20 mA/HART - two-wire coax probe	**PBD-51041063**
4 … 20 mA/HART - four-wire	**PBD-51041064**
4 … 20 mA/HART - four-wire coax probe	**PBD-51041065**
Modbus	**PBD-51041066**
Modbus, Coax probe	**PBD-51041067**
PROFIBUS PA	**PBD-51041068**
PROFIBUS PA, Coax probe	**PBD-51041069**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	

Selection and Ordering data	Article No.
French	
4 … 20 mA/HART - two-wire	**PBD-51041136**
4 … 20 mA/HART - two-wire coax probe	**PBD-51041137**
4 … 20 mA/HART - four-wire	**PBD-51041138**
4 … 20 mA/HART - four-wire coax probe	**PBD-51041139**
Modbus	**PBD-51041140**
Modbus, Coax probe	**PBD-51041141**
PROFIBUS PA	**PBD-51041142**
PROFIBUS PA, Coax probe	**PBD-51041143**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
Spanish	
4 … 20 mA/HART - two-wire	**PBD-51041099**
4 … 20 mA/HART - two-wire coax probe	**PBD-51041100**
4 … 20 mA/HART - four-wire	**PBD-51041101**
4 … 20 mA/HART - four-wire coax probe	**PBD-51041102**
Modbus	**PBD-51041103**
Modbus, Coax probe	**PBD-51041104**
PROFIBUS PA	**PBD-51041105**
PROFIBUS PA, Coax probe	**PBD-51041105**
Note: Operating instructions should be ordered as a separate line on the order.	
This device is shipped with the Siemens Milltronics manual DVD containing the operating instructions library.	
Accessories	
SITRANS LG, GWR sensor Display Module	**A5E34143449**
SITRANS RD100, loop powered display - see Chapter 7	**7ML5741-...**
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	**7ML5740-...**
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	**7ML5744-...**
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	**7ML5750-...**
For applicable back up point level switch - see point level measurement section	

1) Available with Housing/Protection/Cable options E, F, Q, R, and T
2) Available with Supplementary electronic option A00 and Indicating/adjustment modules E00, E01
3) Available with Supplementary electronics A01
4) Available with Centering weight option B00 only
5) Available with Centering weight options B01 ... B08 only
6) Available with Approval options 0A, 0B, 0J, 0K, 0N, 0R, OS,1A, 1C, 1E, 1F, and 1G
7) Available only with the same diameter probe lengths
8) Available with Version/Material options A, B, C, D, F, G
9) Available with Rod Mounted options C01 and C02
10) Available with Indicating/adjustment modules E00 and E01
11) Available with Housing/Protection Cable options C, D, L, M only
12) Version/Material Hastelloy C22, temperature is limited to 400 °C (752 °F)
13) Minimum probe length (Y01) is 1 250 mm (49 inch)
14) Available with Housing/Protection Cable options E, F, Q, and R
15) Not available with Y02
16) Available with Housing protection 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
21) SIL electronics option 2 available with Approval options 0A, 0E, 0G, 0H, 0N, 0Q, 0R, 0S, 0T, 0U, 1C, 1D, 1F, 1H, 1M, 1N, 1P, and 1R
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 option E00, E01
27) Not available with Indicating/adjustment module 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

Note: Please consult manual for further details.

4

Selection and Ordering data	Article No.
SITRANS LG Remote Interface ↗	**7ML5841-** ■■■■■ - ■■■ 0
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	
Instrument	
LG240[4)5)]	0
LG250[6)]	1
LG260[7)]	2
LG270[9)10)]	3
Probe Type	
Exchangeable cable ø 2 mm with gravity weight/316[1)]	A A
Exchangeable cable ø2 mm center weight/316[2)]	A C
Exchangeable cable ø4 mm without weight/316[1)]	A D
Exchangeable cable ø4 mm with gravity weight/316[1)]	A E
Exchangeable cable ø 4 mm with center weight/316[2)]	A G
Exchangeable cable ø 6 mm with gravity weight/316[1)8)]	A H
Exchangeable rod ø8 mm / 316L[1)]	A P
Exchangeable rod ø 8 mm/1.4435 (acc. to Basle Standard)[1)]	A Q
Exchangeable rod ø12 mm / 316L[1)]	A U
Exchangeable rod ø16 mm / 316L[1)]	A W
Process fitting	
Thread to 1 1/2 inch	0
Thread to 2 inch	1
Flange less than DN 50 or 2 inch	2
Flange greater or equal to DN 50 or 2 inch or hygienic fitting (not for safety in gold 25 x 46 mm)	3
Dimension centering weight	
Without	0
ø40 mm/ 30 mm	1
ø45 mm/ 30 mm (for 2 inch tubes)	2
ø75 mm/ 30 mm (for 3 inch tubes)	3
ø95 mm/ 30 mm (for 4 inch tubes)	4
ø1.57 inch/ 1.18 inch (for 2 inch Schedule 160)	5
ø1.77 inch/ 1.18 inch (for 2 inch Schedule 40/80)	6
ø2.95 inch/ 1.18 inch (for 3 inch Schedule 10/40)	7
ø3.74 inch/ 1.18 inch (for 4 inch Schedule 80)	8
Certificates	
Without	0
2.2 Material certificate	1
3.1 Material certificate	2
Lengths	
Rod ø8 mm	
300 ... 1 000 mm (11.81 ... 39.37 inch)	A A
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	A B
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	A C
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	A D
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	A E
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	A F

Selection and Ordering data	Article No.
SITRANS LG Remote Interface ↗	**7ML5841-** ■■■■■ - ■■■ 0
Rod ø12 mm	
300 ... 1 000 mm (11.81 ... 39.37 inch)	A G
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	A H
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	A J
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	A K
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	A L
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	A M
Rod ø16 mm	
300 ... 1 000 mm (11.81 ... 39.37 inch)	A N
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	A P
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	A Q
3 001 ... 4 000 mm (118.15 ... 157.48 inch)	A R
4 001 ... 5 000 mm (157.52 ... 196.85 inch)	A S
5 001 ... 6 000 mm (196.89 ... 236.22 inch)	A T
Cable Lengths ø2mm and 4 mm/316	
501 ... 1000 mm (19.72 ... 39.37 inch)	A U
1 001 ... 5 000 mm (39.41 ... 196.85 inch)	A V
5 000 ... 10 000 mm (196.89 ... 393.70 inch)	A W
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	A X
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	A Y
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	B A
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	B B
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	B C
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	B D
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	B E
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	B F
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	B G
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	B H
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	B J
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	B K
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)	B L

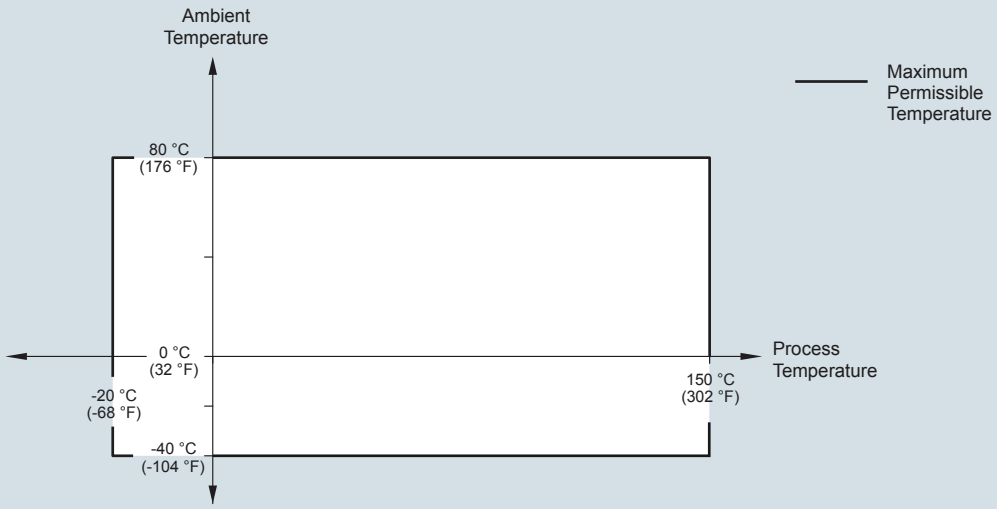
Selection and Ordering data	Article No.	
SITRANS LG Remote Interface	↗ **7ML5841-** ■■■■■ - ■■■ **0**	
Cable Lengths ø6mm/316		
501 ... 1000 mm (19.72 ... 39.37 inch)		**B M**
1 001 ... 5 000 mm (39.41 ... 196.85 inch)		**B N**
5 000 ... 10 000 mm (196.89 ... 393.70 inch)		**B P**
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		**B Q**
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		**B R**
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		**B S**
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		**B T**
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		**B U**
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		**B V**
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		**B W**
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		**B X**
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		**B Y**
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		**C A**
60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)		**C B**
65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)		**C C**
70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch)		**C D**

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**
Enter the total length of rigid part (cable version only)	**Y02**

[1] Available with Dimension centering weight: Without Option 0
[2] Available with Dimension centering weight: Without 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 option 2 and 3
[6] Not available with Probe type option AQ and AW
[7] Available with Probe type option AE, AH, and AW
[8] Not available with Process fitting option 2
[9] Available with Probe type option AA, AC, AE, AG and AW
[10] Available with Process fitting 0 and 3

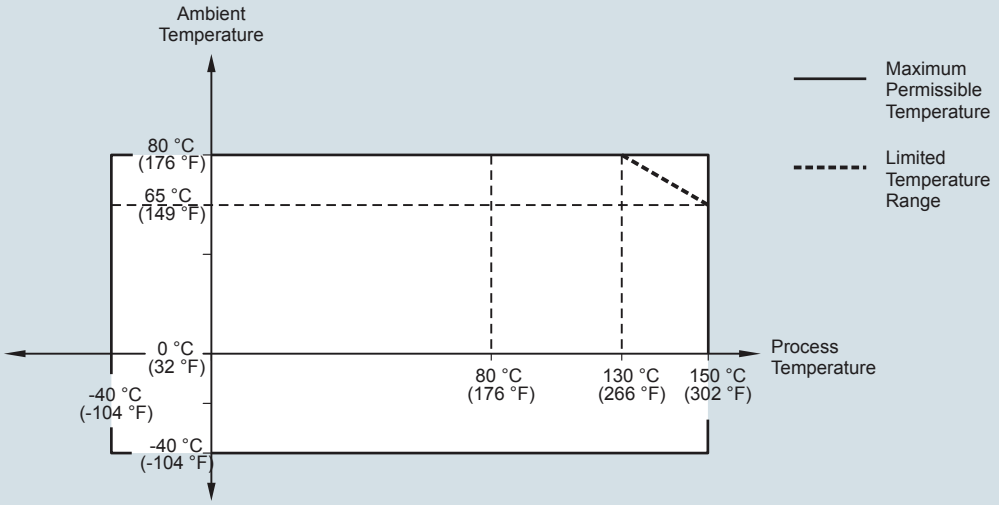
Characteristic curves

SITRANS LG240, Ambient temperature/process temperature, standard version

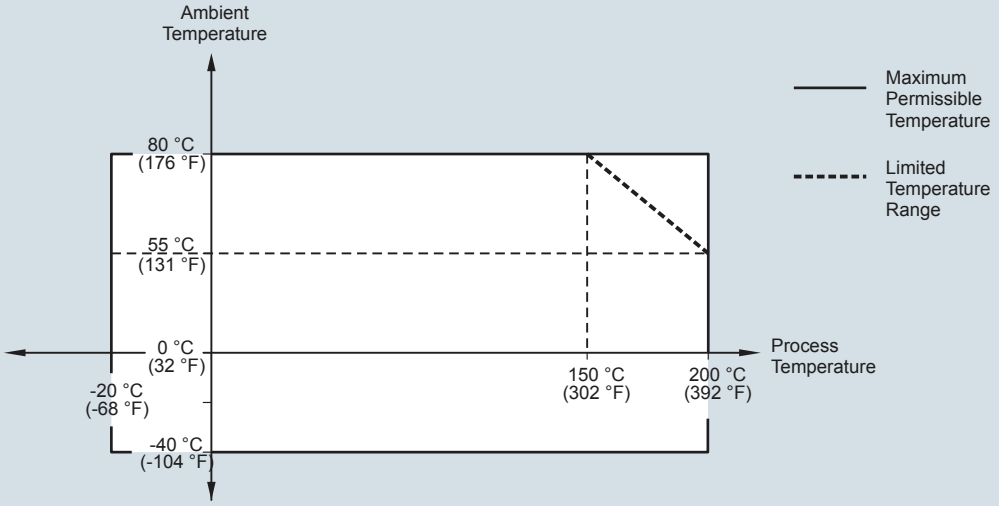


SITRANS LG240, Ambient temperature/process temperature curve

SITRANS LG250, Ambient temperature/process temperature, standard version

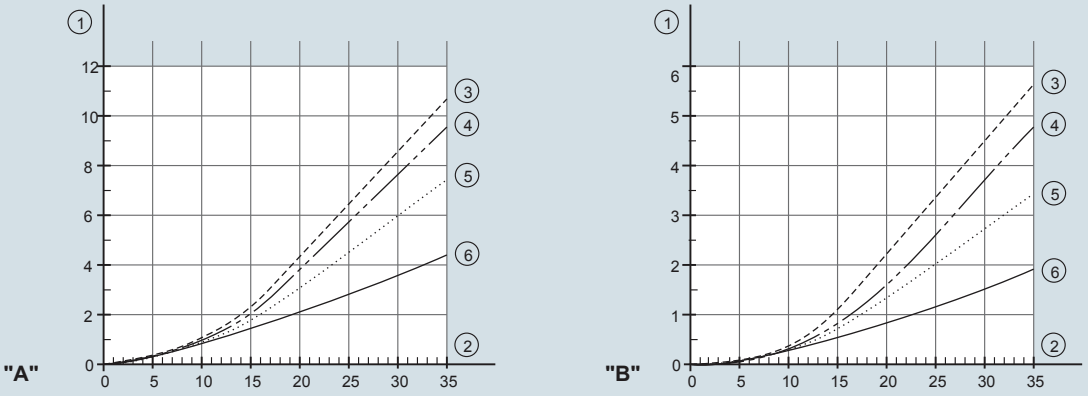


SITRANS LG250, Ambient temperature/process temperature, temperature adapter version



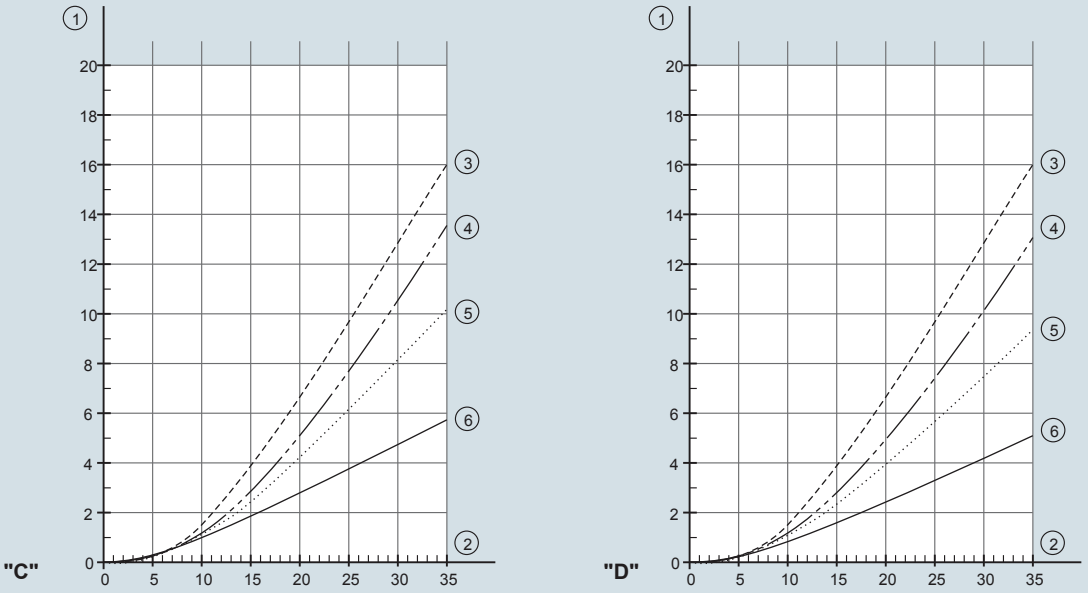
SITRANS LG250, Ambient temperature/process temperature curves

SITRANS LG260, Maximum tensile load with cereals and plastic granules - cable: ø 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)

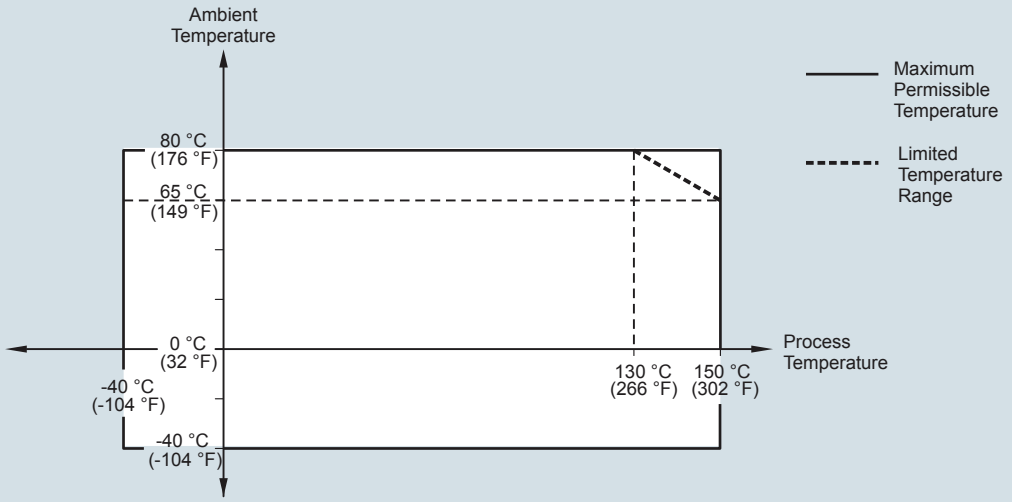
SITRANS LG260, Maximum tensile load with sand and cement - cable: ø 4 mm (0.157 inch)



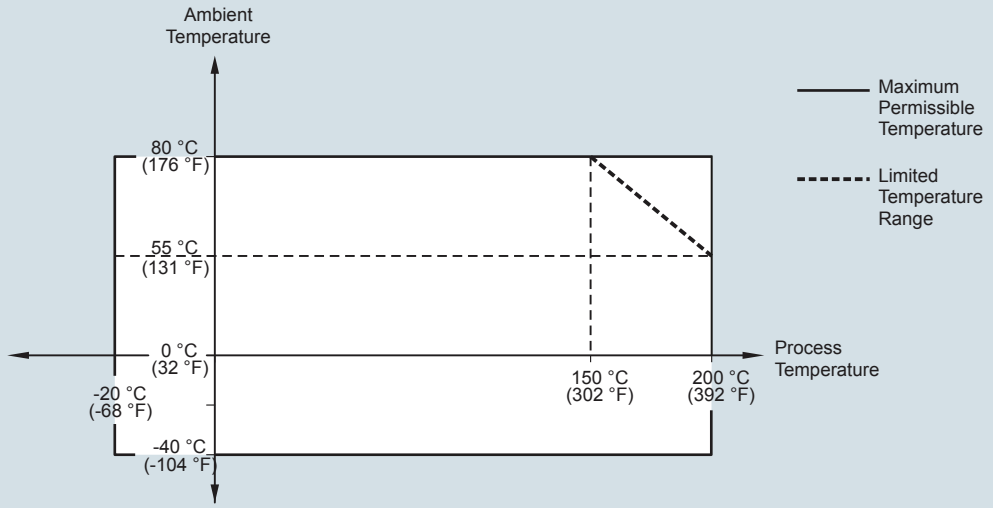
C. Sand
D. Cement
1. Tensile force in kN (the determined value must be multiplied with safety factor 2)
2. Cable length in m
3. Vessel diameter 12 m (39.37 ft)
4. Vessel diameter 9 m (29.53 ft)
5. Vessel diameter 6 m (19.69 ft)
6. Vessel diameter 3 m (9.843 ft)

SITRANS LG260, Maximum tensile load curves

SITRANS LG260, Ambient temperature/process temperature, standard version
Cable version with ø 4 mm (0.157 inch)
Cable version, PA coated with ø 6 mm (0.236 inch)

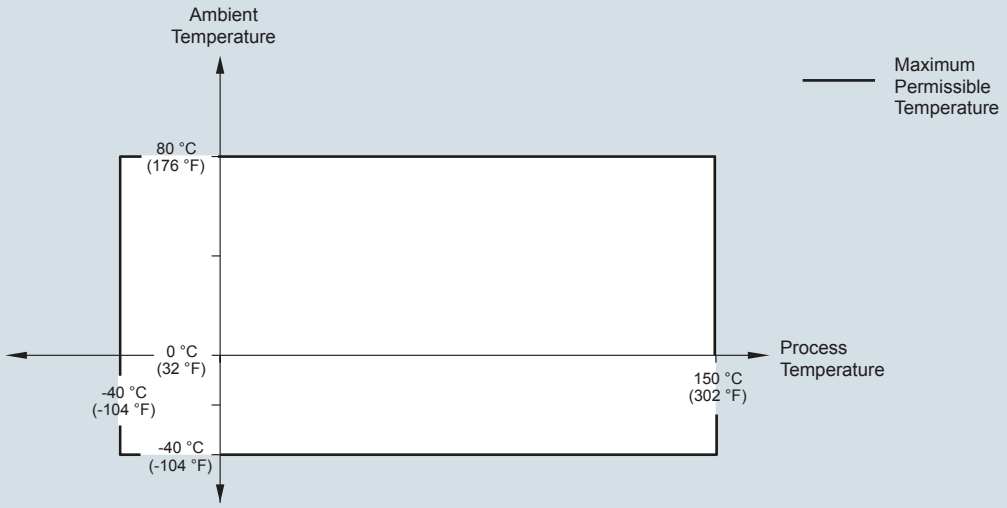


SITRANS LG260, Ambient temperature/process temperature, temperature adapter version
Cable version with ø 4 mm (0.157 inch)
Cable version, PA coated with ø 6 mm (0.236 inch)

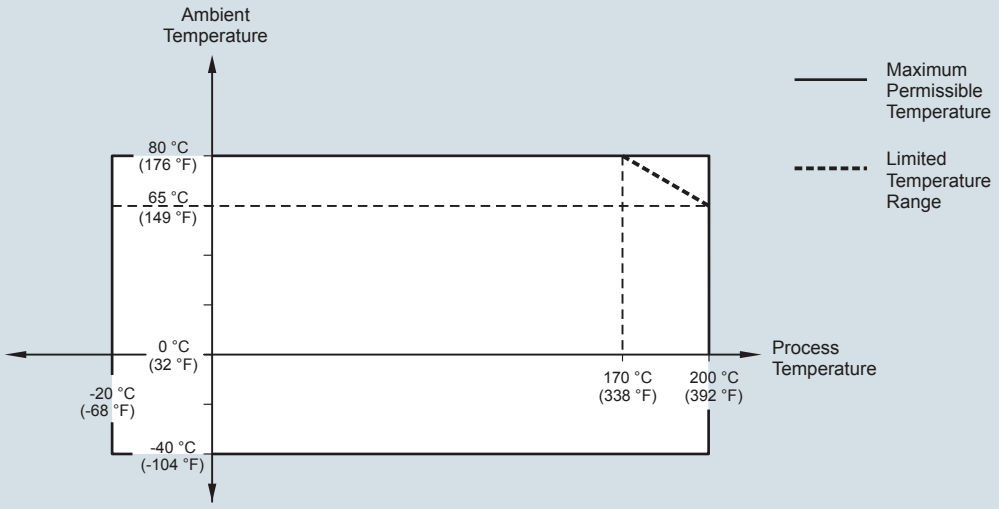


SITRANS LG260, Ambient temperature/process temperature curves

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

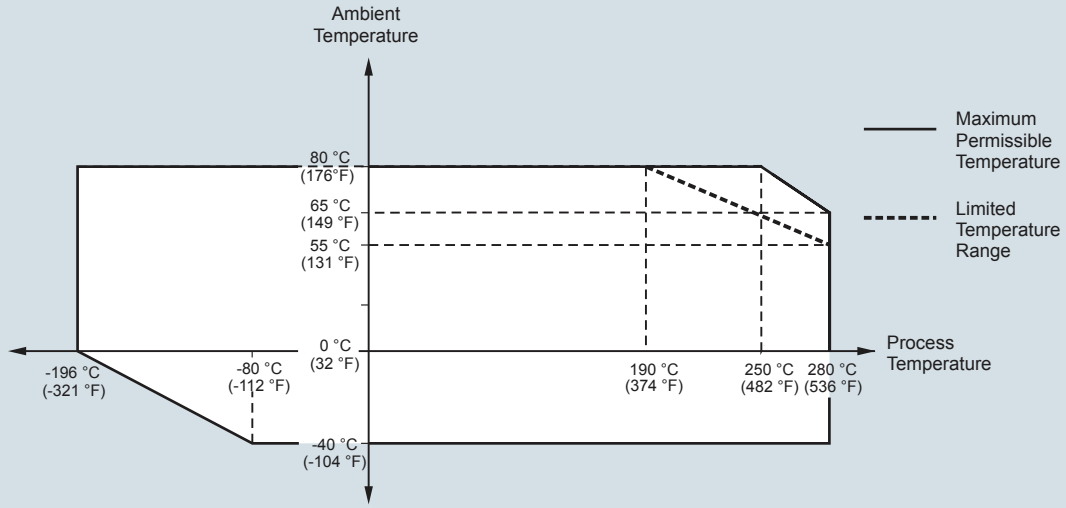


SITRANS LG260, Ambient temperature/process temperature, temperature adapter version
Cable version with ø 6 mm (0.236 inch)
Cable version, PA coated with ø 11 mm (0.433 inch)

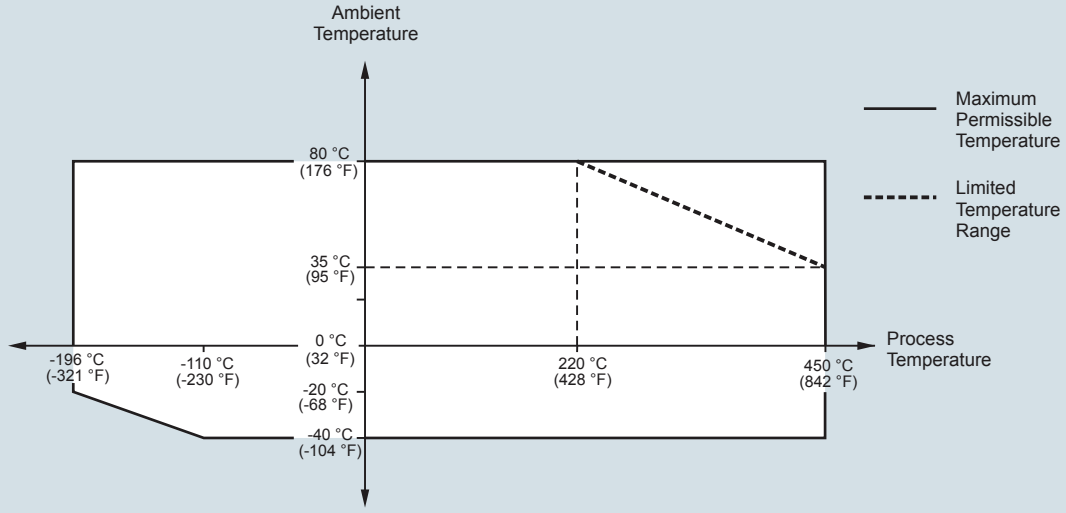


SITRANS LG260, Ambient temperature/process temperature curves

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

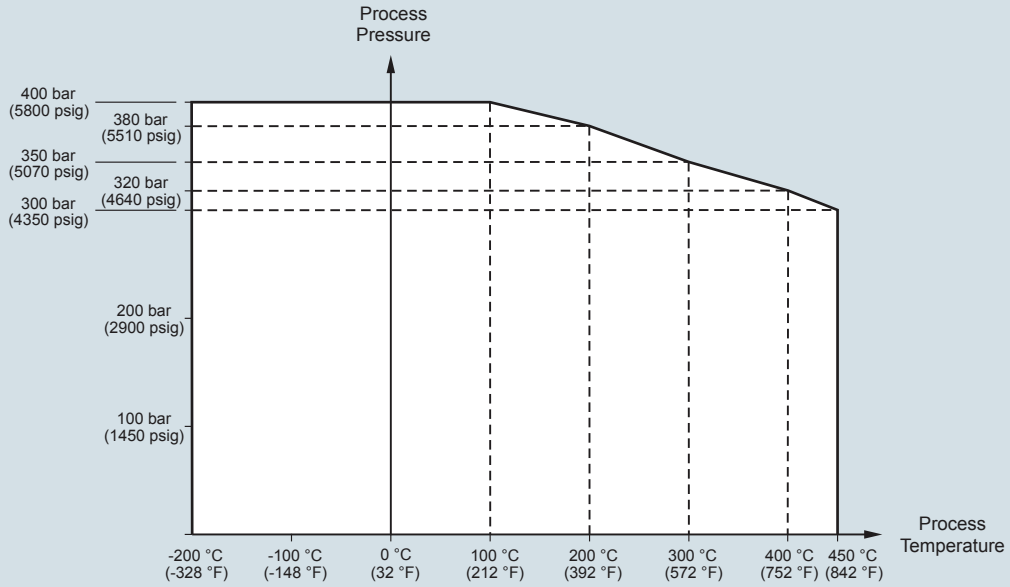


SITRANS LG270, Ambient temperature/process temperature (-196 … +450 °C/-321 … +842 °F version)



SITRANS LG270, Ambient temperature/process temperature curves

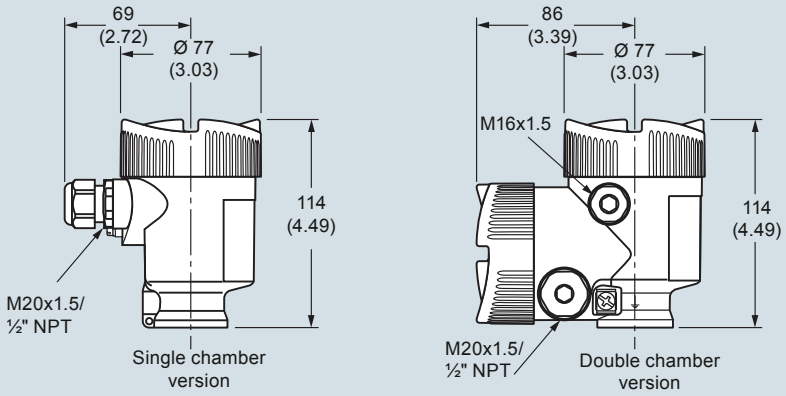
SITRANS LG270, Process pressure/process temperature (-196 … +450 °C/-321 … +842 °F version)



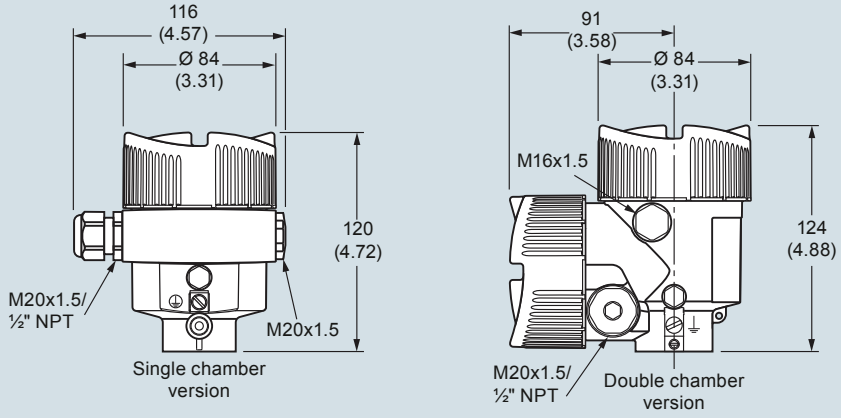
SITRANS LG270, Process pressure/process temperature curve

Dimensional drawings

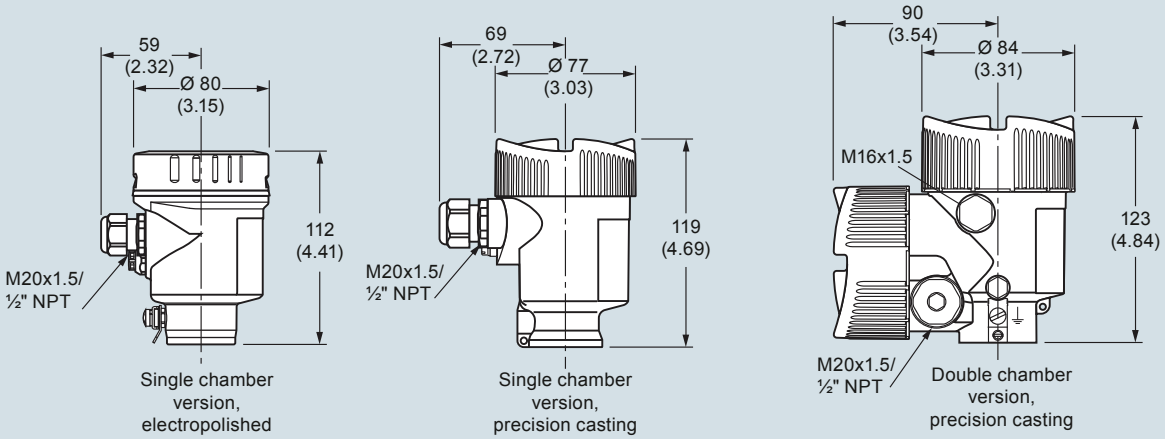
LG Series plastic housing



LG Series aluminum housing



LG Series stainless steel housing



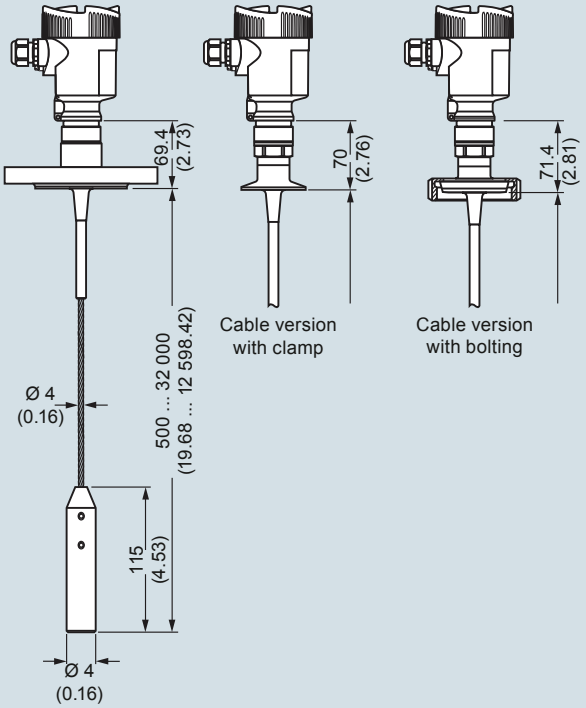
Note: For integrated display and adjustment module the housing is 9 (0.35) higher for all housing options

SITRANS LG series, dimensions in mm (inch)

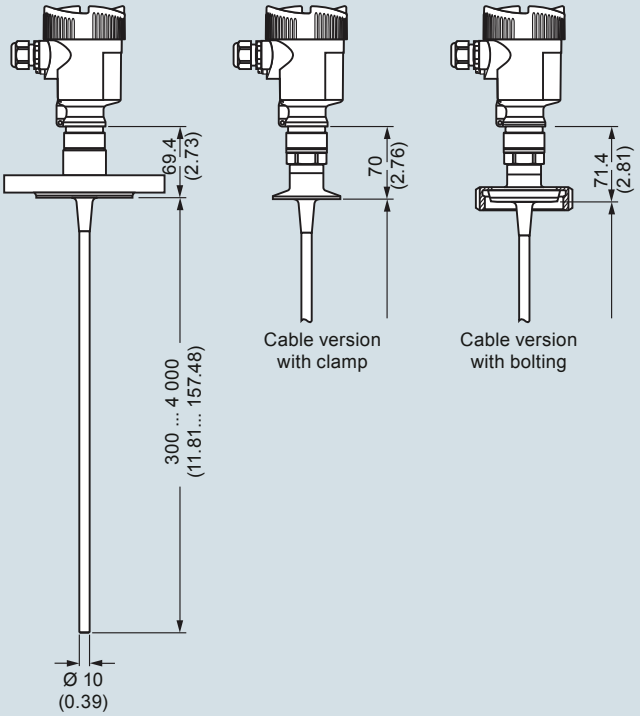
4

SITRANS LG240

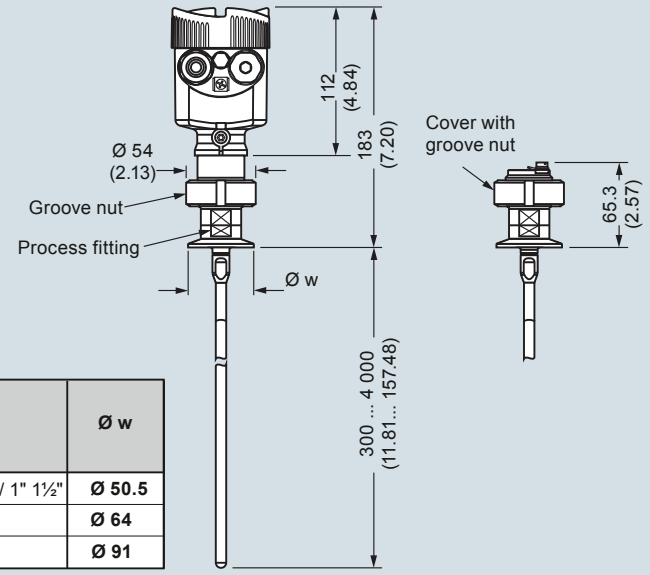
Cable version Ø 4 (0.157), PFA coated



Rod version Ø 10 (0.394), PFA coated

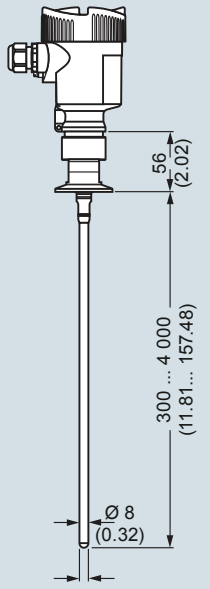


Autoclaved version

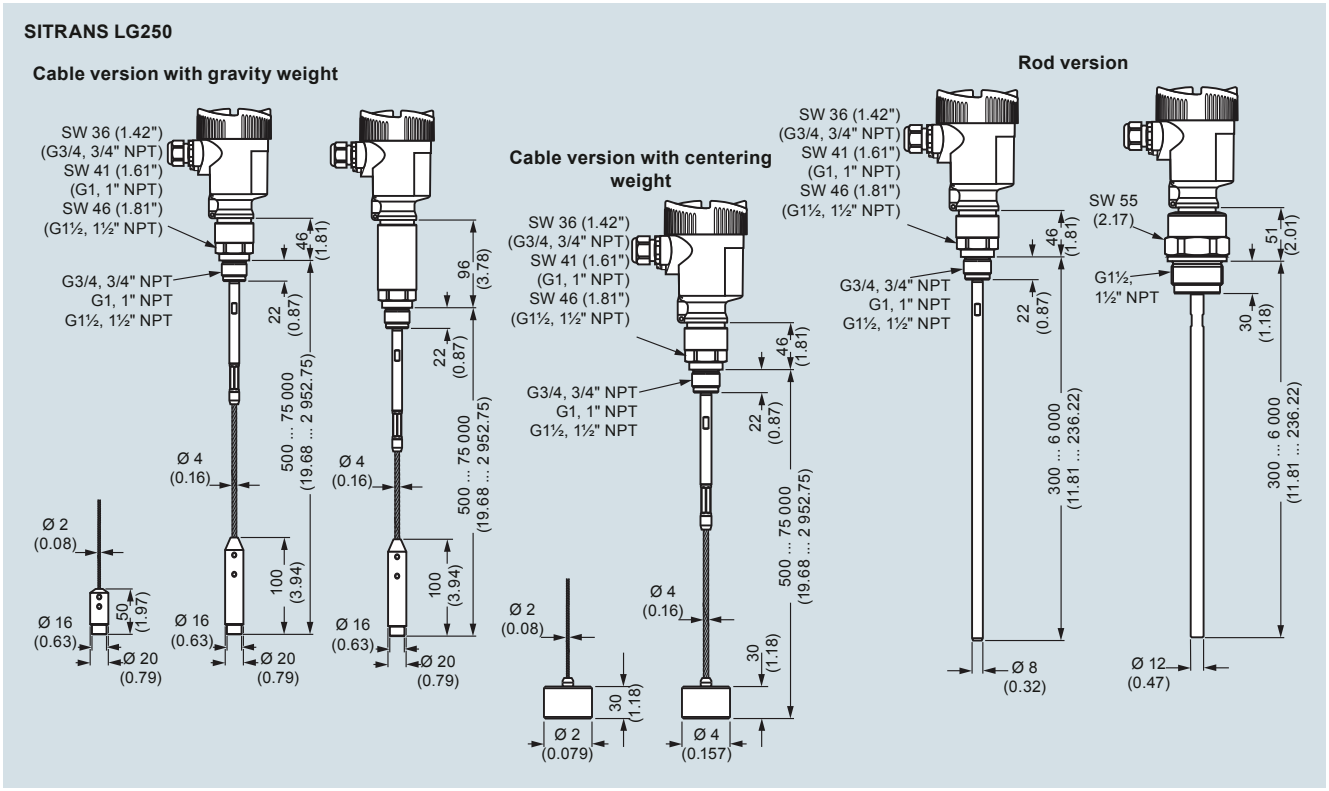


	Ø w
DIN DN 25 DN 32 DN 40/ 1" 1½"	**Ø 50.5**
DIN DN 50/ 2"	**Ø 64**
DIN DN 65/ 3"	**Ø 91**

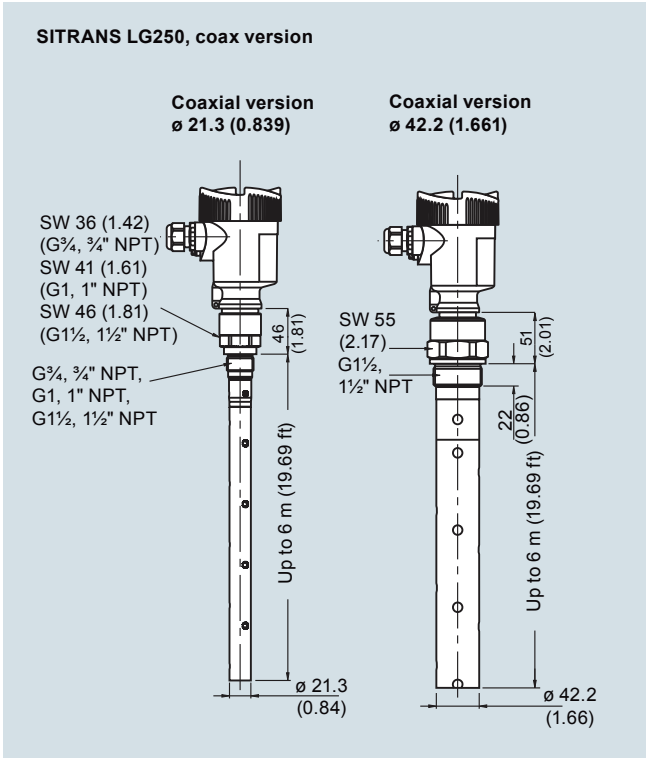
Rod version Ø 8 (0.315), polished



SITRANS LG240, dimensions in mm (inch)

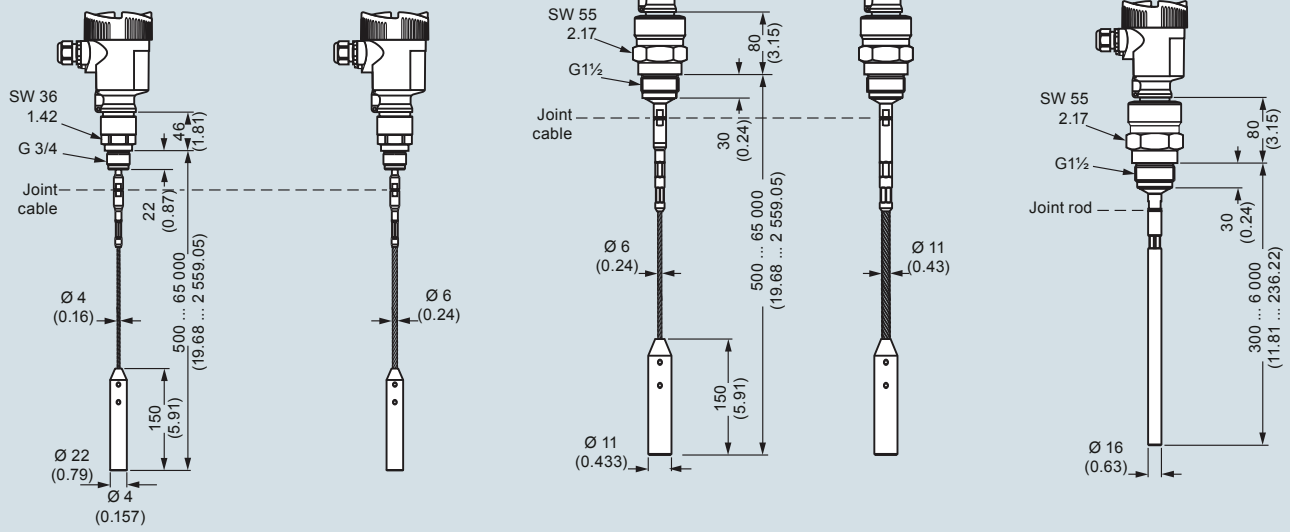


SITRANS LG250, dimensions in mm (inch)

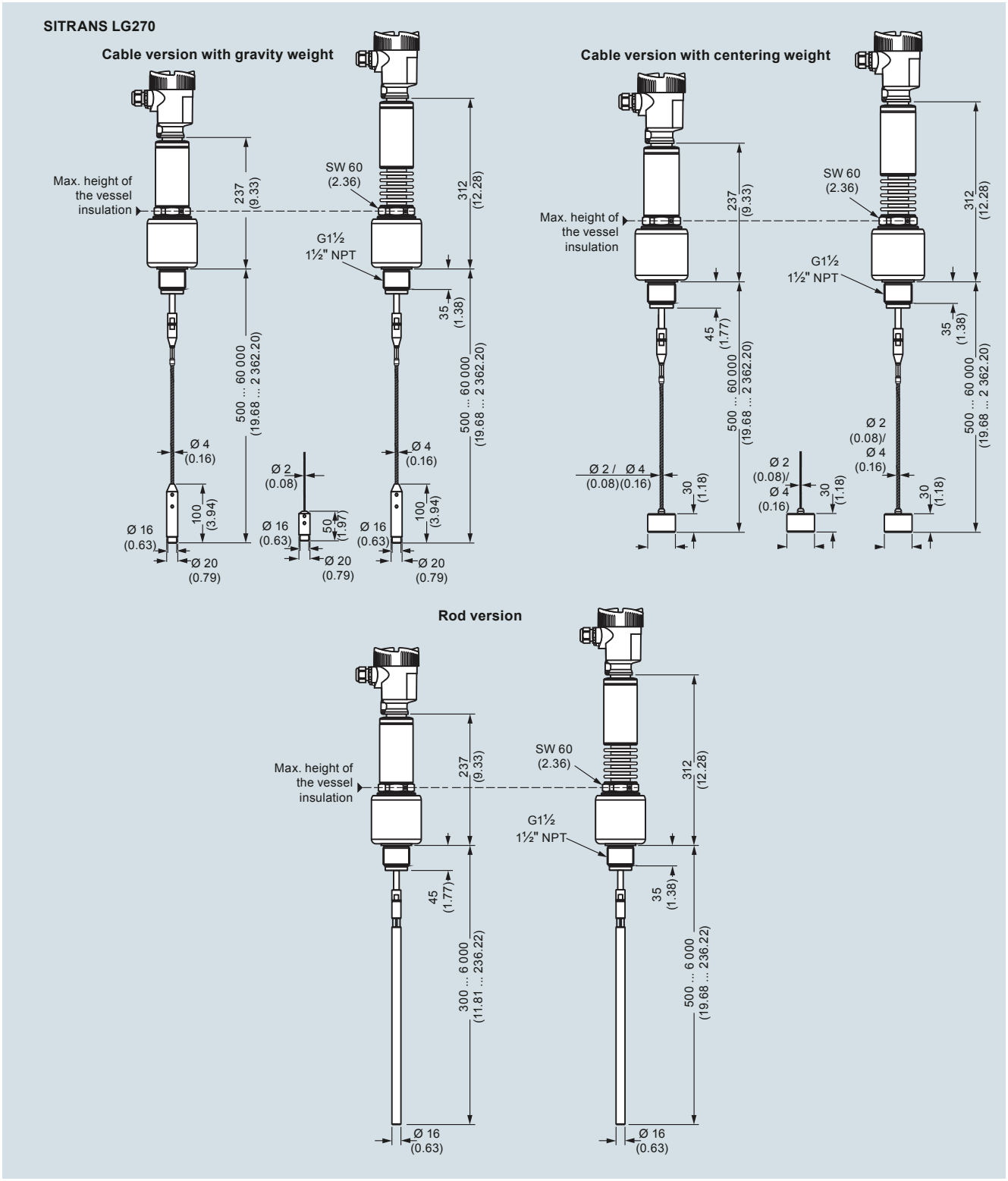


SITRANS LG250, dimensions in mm (inch)

SITRANS LG260

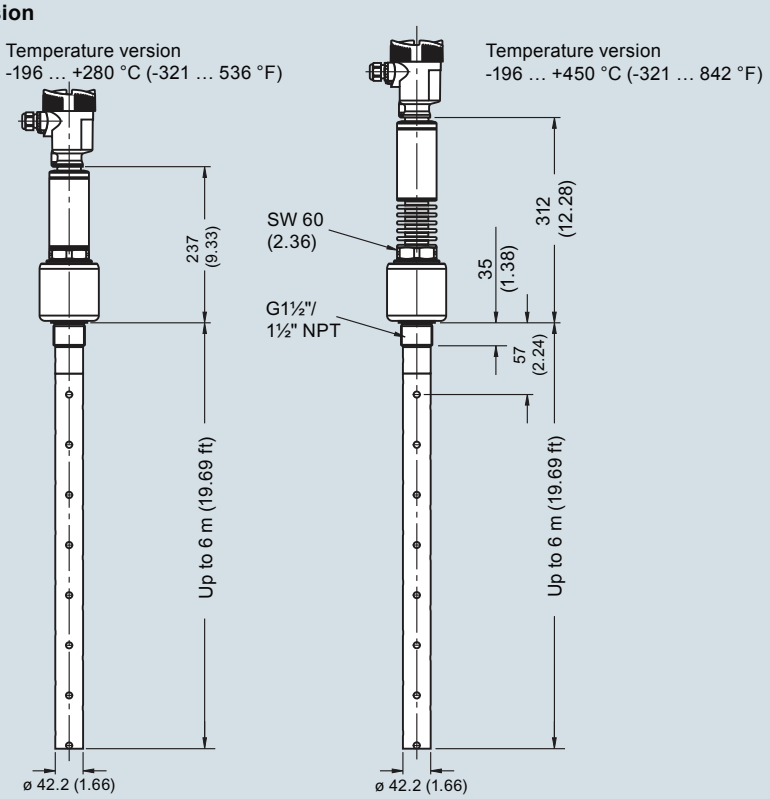


SITRANS LG260, dimensions in mm (inch)



SITRANS LG270, dimensions in mm (inch)

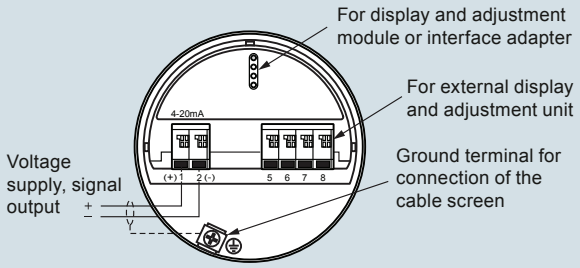
SITRANS LG270, coax version



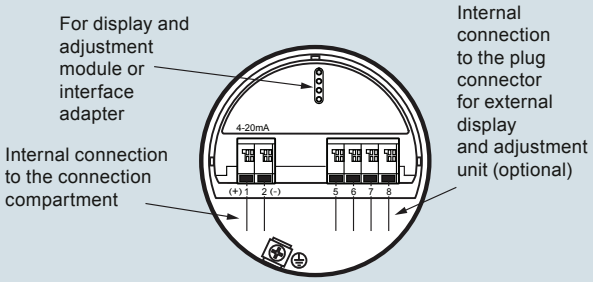
SITRANS LG270, dimensions in mm (inch)

Schematics

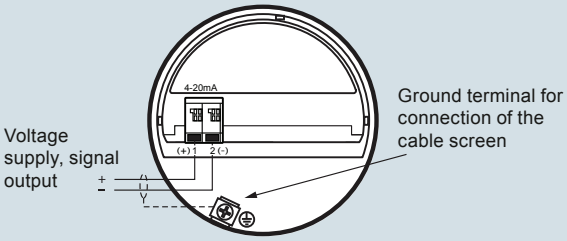
2-wire HART electronic option, electronics and connection compartment, single chamber housing



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



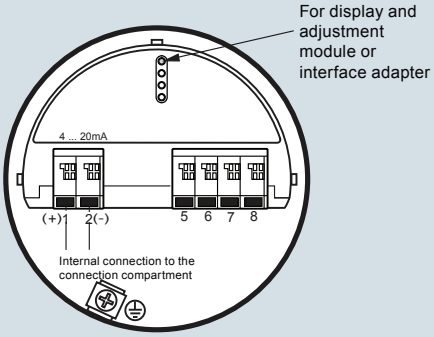
2-wire HART electronic option, connection compartment, Ex-d-ia double chamber housing



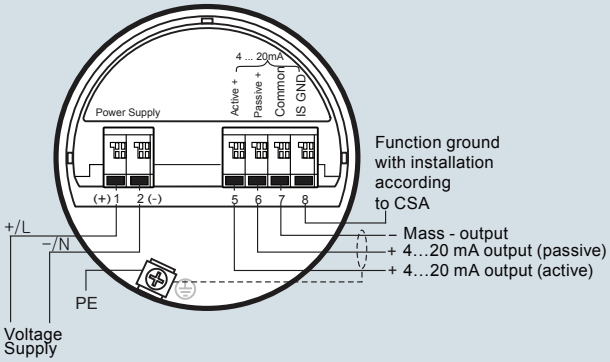
Note: All 2-wire HART connections and electronics are also available with SIL

SITRANS LG series, connections

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

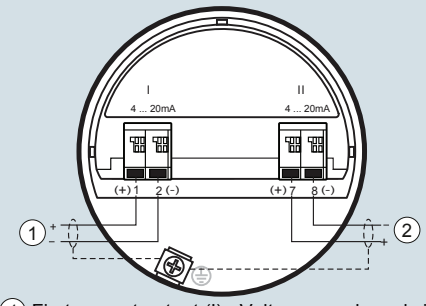


4-wire electronic option, connection compartment with double chamber housing with mains voltage



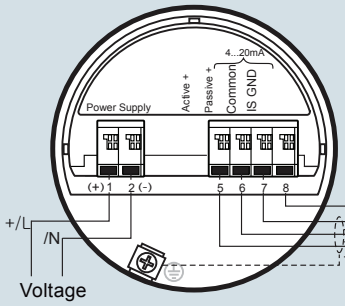
SITRANS LG series, connections

Supplementary electronics



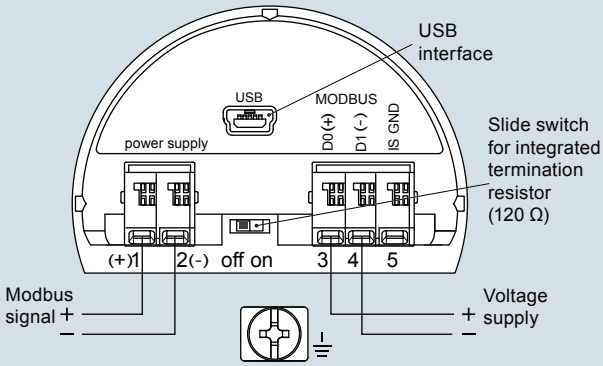
1 First current output (I) - Voltage supply and signal output (HART)
2 Second current output (II) - Voltage supply and signal output (without HART)

Connection compartment with low voltage

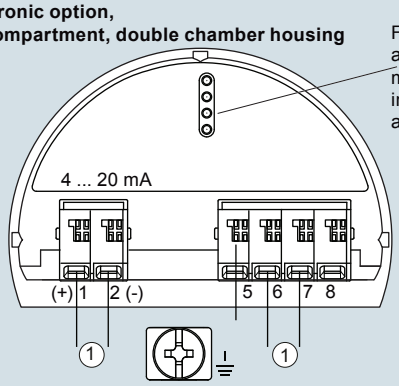


SITRANS LG series, connections

Modbus electronic option, connection compartment



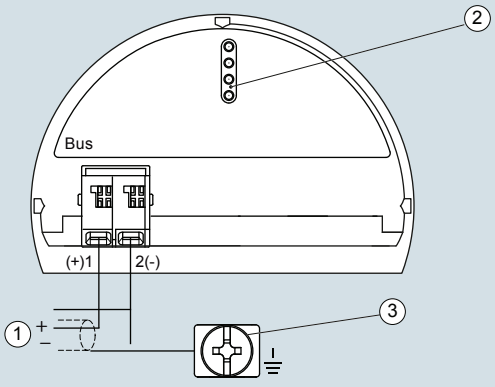
Modbus electronic option, electronics compartment, double chamber housing



1 Internal connection to the connection compartment

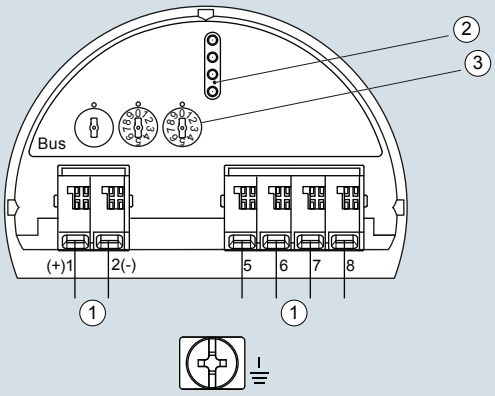
SITRANS LG series, connections

Profibus electronic option, connection compartment, double chamber housing



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

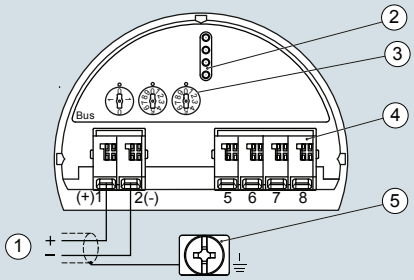
Profibus electronic option, electronics compartment, double chamber housing



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

LG series, connections

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



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

LG series, connections