

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

#### Overview



The Siemens SITRANS LG series are guided wave radar transmitters for level, level/interface, and volume measurement of liquids and solids. It is unaffected by 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
- Measures complete range of probe, which is perfect for small vessels
- Wide range of Hygienic options

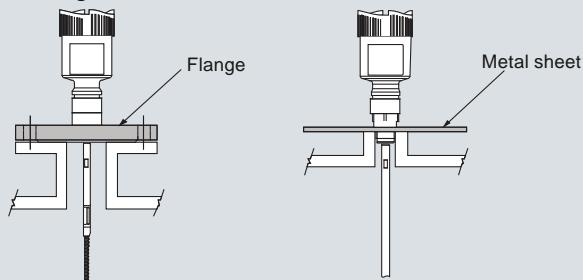
#### Application

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 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

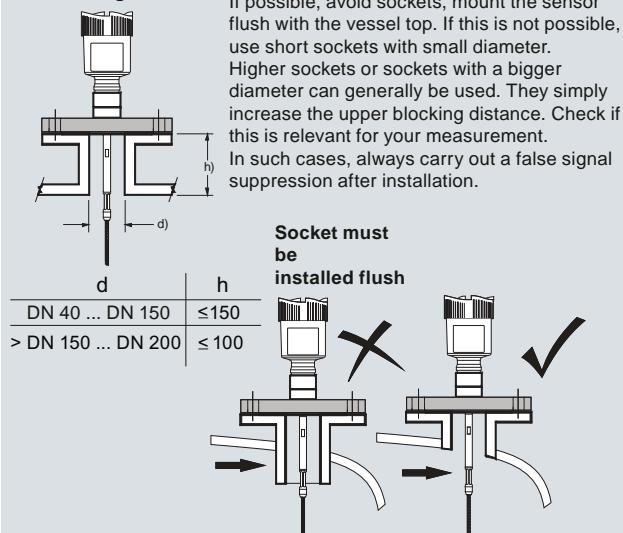


### Installation in non-metal vessel

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



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, dimensions in mm (inch)

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#### 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  
Output range  
• Analog Current: minimum 3.8 mA, maximum 20.5 mA  
• Start-up current  $\leq 10$  mA for 5 ms after switching on,  $\leq 3.6$  mA  
Diagnostic alarm Failure signal current output (adjustable): last valid measured value,  $\geq 21$  mA,  $\leq 3.6$  mA  
Digital communication HART Version 7 x and multidrop compatible

##### Performance

Non-linearity Process reference conditions according to DIN EN 61298-1  
• Coaxial  
• Single rod probes  
• Interface models  
Resolution and repeatability See manual for more details  
Accuracy Accuracy  $\pm 2$  mm (0.08 inch)  
• Coaxial/rod/cable probes  $\pm 2$  mm (0.08 inch)  
• Interface models  $\pm 5$  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  $\leq 3$  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  $-40 \dots +80$  °C ( $-40 \dots +176$  °F)
- LCD readable temperature range  $-40 \dots +80$  °C ( $-40 \dots +176$  °F) with display heated option
- Location Indoor/outdoor
- Installation category II
- Pollution degree 2
- Relative Humidity 20 ... 85 %

##### Medium conditions

Dielectric constant  $dK \geq 1.4$  (configuration dependent)  
Process temperature range  $-196 \dots +450$  °C ( $-321 \dots +842$  °F)  
Vessel pressure  $-1 \dots +400$  bar  
( $-100 \dots +40\,000$  kPa)

##### Design

Instrument weight (dependent on process fitting)  
see manual for further details  
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

##### Cable inlet

Process connections  
• Pipe thread, cylindrical (ISO 228 T1)  
• American pipe thread, conical (ASME B1.20.1)  
• Flanged  
• Hygienic  
G $\frac{3}{4}$ " A, G1" A, G1 $\frac{1}{2}$ " A according to DIN 3852-A  
 $\frac{3}{4}$ " NPT, 1" NPT, 1 $\frac{1}{2}$ " NPT  
DIN from DN 25, ANSI from 1" hygienic fittings

##### Programming

Local	Four button, menu-driven data entry
Handheld communicator	HART communicator
PC	SIMATIC PDM, AMS, PACTware

##### Power

9.6 ... 35 V DC

##### Certificates and approvals

Hazardous approvals:	ATEX, FM, CSA, IECEx
Overfill protection	WHD
Ship approval	

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	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 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 SIMATIC PDM DTM/FDT for PACTware, Fieldcare	4 ... 20 mA/HART SIMATIC PDM DTM/FDT for PACTware, Fieldcare	4 ... 20 mA/HART SIMATIC PDM DTM/FDT for PACTware, Fieldcare	4 ... 20 mA/HART SIMATIC PDM DTM/FDT for PACTware, Fieldcare
Power	24 V DC nominal Loop powered	24 V DC nominal Loop powered	24 V DC nominal Loop powered	24 V DC nominal Loop powered

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Selection and Ordering data		Article No.
<b>SITRANS LG240</b>		<b>7ML5880-</b>
Guided Wave Radar sensor for Hygienic continuous level and interface measurement of liquids.		
<b>Approvals</b>		
Ordinary location CE <sup>9)</sup>	0A	
Shipping approval (GL)	0B	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 <sup>9)</sup>	0E	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval GL	0G	
ATEX II 1G, 1/2G, 2G Ex ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T <sup>9)</sup>	0H	
ATEX II 1/2G, 2G Ex d ia IIC T6 <sup>1)</sup>	0J	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x <sup>1)</sup>	0K	
ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T	0N	
IEC Ex ia IIC T6 <sup>9)</sup>	0P	
IEC Ex ia IIC T6 + IEC IP6x T tD <sup>9)</sup>	0Q	
IEC Ex d ia IIC T6 <sup>1)</sup>	0R	
IEC Ex d ia IIC T6 + IEC IP6x T tD <sup>1)</sup>	0S	
FM (NI) Class I, Div. 2, Groups A, B, C, D	1A	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F	1B	
FM(XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>	1C	
CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP)	1E	
Class II, III, Div. 1, Groups E, F, G		
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	1F	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>	1G	
<b>Version/Material</b>		
Cable ø4 mm (0.16 inch) with gravity weight/PFA <sup>27)</sup>	A	
Exchange. rod ø8 mm (0.31 inch)/1.4435 (according to Basle Standard) <sup>37)</sup>	B	
Exchange rod ø8 mm (0.31 inch)/1.4435 (Basle standard) can be autoclaved <sup>37)</sup>	C	
Rod ø10 mm (0.39 inch)/PFA <sup>27)</sup>	D	
<b>Process fitting/Material</b>		
Clamp 2" PN 16 (ø64 mm) DIN 32676, ISO2852/1.4435 (BN2) <sup>4)</sup>	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) <sup>4)</sup>	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) <sup>4)</sup>	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) <sup>4)</sup>	0 6	
Clamp 4" PN6 (ø119 mm) DIN 32676, ISO2852/PTFE-TFM 1600	0 7	
Bolting DN 32, PN 40 DIN11851/1.4435(BN2) <sup>4)</sup>	0 8	
Bolting DN 32, PN 40 DIN11851/PTFE-TFM 1600	1 0	
Bolting DN 40, PN 40 DIN11851/1.4435 (BN2) <sup>4)</sup>	1 1	
Bolting DN 40, PN 40 DIN11851/PTFE-TFM 1600	1 2	
Bolting DN 50, PN 25 DIN11851/1.4435(BN2) <sup>4)</sup>	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	

Selection and Ordering data		Article No.
<b>SITRANS LG240</b>		<b>7ML5880-</b>
Guided Wave Radar sensor for Hygienic continuous level and interface measurement of liquids.		
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	
<b>Electronics</b>		
Two-wire 4 ... 20mA/HART	0	
Four-wire 4...20mA/HART; 90...253V AC; 50/60 Hz <sup>18)</sup>	3	
Four-wire 4...20mA/HART; 9.6...48V DC; 20...42 V AC <sup>18)</sup>	4	
<b>Seal/Process temperature</b>		
Without/-40 ... +150 °C (-40 ... +238 °F) <sup>5)</sup>	A	
FFKM (Kalrez 6221)/-20...150 °C (-4 ... +238 °F)	B	
EPDM (Freudenberg 70 EPDM 291)/-20...130 °C (-4 ... +266 °F)	C	
<b>Housing/Protection/Cable</b>		
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	
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	

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Selection and Ordering data	Article No.	Selection and Ordering data	Order code
<b>SITRANS LG240</b>	<b>7ML5880-</b>	<b>Further designs</b>	
Guided Wave Radar sensor for Hygienic continuous level and interface measurement of liquids.		Please add "-Z" to Order No. and specify Order code(s).	
<b>Lengths</b>		Enter the total insertion length in plain text description	<b>Y01</b>
Rod ø8 mm (0.31 inch)/1.4435 (Basle standard) 300 ... 4 000 mm)	0	Enter the total length of rigid part (cable version only)	<b>Y02</b>
300 ... 1 000 mm (11.81 ... 39.37 inch)	1	Cleaning included certificate: oil, grease and silicone free	<b>W01</b>
1 001 ... 2 000 mm (39.41 ... 78.74 inch)	2	Identification Label (measurement loop) stainless steel	<b>Y17</b>
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	3	Identification Label (measurement loop) Foil	<b>Y18</b>
3 001 ... 4 000 mm (118.15 ... 157.48 inch)		3.1 Certificate instrument	<b>C12</b>
Rod ø10 mm (0.24 inch)/PFA (300 ... 4 000 mm)	9R1A	3.1 Certificate material (NACE0175)	<b>D07</b>
300 mm (11.81 inch)	9R1B	3.1 Certificate instrument with test data	<b>C25</b>
500 mm (19.69 inch)	9R1C	2.2 Certificate material	<b>C15</b>
300 ... 1 000 mm (11.81 ... 39.37 inch)	9R1D	Quality/test plan	<b>C26</b>
1 001 ... 5 000 mm (39.41 ... 78.74 inch)	9R1E		
2 001 ... 3 000 mm (78.78 ... 118.11 inch)	9R1F		
3 001 ... 4 000 mm (118.15 ... 157.48 inch)		<b>Additional Operating Instructions</b>	Article No.
Cable ø4 mm (0.16 inch)/PFA (500 ... 32 000 mm)	9R1G	<b>German</b>	
500 mm (9.69 inch)	9R1H	4 ... 20 mA/HART - two-wire PFA insulated	<b>PBD-51041000</b>
501 ... 1 000 mm (19.72 ... 39.37 inch)	9R1J	4 ... 20 mA/HART - two-wire Polished version	<b>PBD-51041001</b>
1 001 ... 2 000 mm (39.37 ... 196.85 inch)	9R1K	4 ... 20 mA/HART - four-wire PFA insulated	<b>PBD-51041002</b>
2 001 ... 4 000 mm (196.89 ... 393.70 inch)	9R1L	4 ... 20 mA/HART - four-wire Polished version	<b>PBD-51041003</b>
4 001 ... 5 000 mm (393.74 ... 590.55 inch)	9R1M		
5 001 ... 10 000 mm (590.59 ... 787.40 inch)	9R1N	<b>English</b>	
10 001 ... 15 000 mm (787.44 ... 984.25 inch)	9R1P	4 ... 20 mA/HART - two-wire PFA insulated	<b>PBD-51041037</b>
15 001 ... 20 000 mm (984.29 ... 1 181.10 inch)	9R1Q	4 ... 20 mA/HART - two-wire Polished version	<b>PBD-51041038</b>
20 001 ... 25 000 mm (1 181.14 ... 1 377.95 inch)	9R1R	4 ... 20 mA/HART - four-wire PFA insulated	<b>PBD-51041039</b>
25 001 ... 32 000 mm (1 377.99 ... 1 574.80 inch)	A00	4 ... 20 mA/HART - four-wire Polished version	<b>PBD-51041040</b>
<b>Supplementary electronics</b>	A01	<b>French</b>	
Without <sup>1)</sup>		4 ... 20 mA/HART - two-wire PFA insulated	<b>PBD-51041111</b>
Additional current output 4 ... 20 mA <sup>1)</sup>		4 ... 20 mA/HART - two-wire Polished version	<b>PBD-51041112</b>
<b>Indicating/adjustment module</b>	E00	4 ... 20 mA/HART - four-wire PFA insulated	<b>PBD-51041113</b>
Without <sup>1)</sup>	E01	4 ... 20 mA/HART - four-wire Polished version	<b>PBD-51041114</b>
Mounted <sup>1)</sup>	E02		
Laterally mounted <sup>1)</sup>		<b>Spanish</b>	
<b>Language of display</b>	L00	4 ... 20 mA/HART - two-wire PFA insulated	<b>PBD-51041074</b>
German	L01	4 ... 20 mA/HART - two-wire Polished version	<b>PBD-51041075</b>
English	L02	4 ... 20 mA/HART - four-wire PFA insulated	<b>PBD-51041076</b>
French	L03	4 ... 20 mA/HART - four-wire Polished version	<b>PBD-51041077</b>
Dutch	L04		
Italian	L05		
Spanish	L06		
Portuguese	L07		
Russian	L08		
Chinese	L09		
Japanese			
<b>Operating instructions</b>	M01	1) Available with Housing/protection/cable options E, F, L, M only	
German	M01	2) Available with Process Fitting/material options 01, 03, 05, 07, 10, 12, 14 ... 33 only	
English	M02	3) Available with Process fitting/material options 00, 02, 04, 06, 08, 11, and 13 only	
French	M03	4) Available with Length options 0, 1, 2, and 3 only	
Spanish		5) Available with Length options R1A ... R1R only	
		6) Available with housing protection cable C, D, L, and M	
		7) Available only with the same diameter probe lengths	
		8) Available with supplementary electronics A00 and Indicating /ajustment module E00, E01	
		9) Available with Supplementary electronics A01 approval options 0A,0E,0H,0P and 0Q	

<sup>1)</sup> Available with Housing/protection/cable options E, F, L, M only<sup>2)</sup> Available with Process Fitting/material options 01, 03, 05, 07, 10, 12, 14 ... 33 only<sup>3)</sup> Available with Process fitting/material options 00, 02, 04, 06, 08, 11, and 13 only<sup>4)</sup> Available with Length options 0, 1, 2, and 3 only<sup>5)</sup> Available with Length options R1A ... R1R only<sup>6)</sup> Available with housing protection cable C, D, L, and M<sup>7)</sup> Available only with the same diameter probe lengths<sup>8)</sup> Available with supplementary electronics A00 and Indicating /ajustment module E00, E01<sup>9)</sup> Available with Supplementary electronics A01 approval options 0A,0E,0H,0P and 0Q

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Selection and Ordering data		Article No.
<b>SITRANS LG250</b>		<b>7ML5881-</b>
A guided wave radar sensor for continuous level and interface measurement of liquids.		
<b>Approvals</b>		
Ordinary location CE <sup>16)</sup>		<b>0A</b>
Shipping approval (GL)		<b>0B</b>
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 <sup>16)</sup>		<b>0E</b>
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval GL		<b>0G</b>
ATEX II 1G, 1/2G, 2G Ex ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 <sup>16)</sup>		<b>0H</b>
ATEX II 1/2G, 2G Ex d ia IIC T6 <sup>1)</sup>		<b>0J</b>
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T <sup>1)</sup>		<b>0K</b>
ATEX II 1/2G, 2G Ex d ia IIC T6 <sup>14)</sup>		<b>0L</b>
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T <sup>14)</sup>		<b>0M</b>
ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T		<b>0N</b>
IEC Ex ia IIC T <sup>6)</sup>		<b>0P</b>
IEC Ex ia IIC T6 + IEC IP6x T tD <sup>16)</sup>		<b>0Q</b>
IEC Ex d ia IIC T6 <sup>1)</sup>		<b>0R</b>
IEC Ex d ia IIC T6 + IEC IP6x T tD <sup>1)</sup>		<b>0S</b>
IEC Ex d IIC T6 <sup>14)</sup>		<b>0T</b>
IEC Ex d IIC T6 + IEC IP6x T tD <sup>14)</sup>		<b>0U</b>
FM (NI) Class I, Div. 2, Groups A, B, C, D		<b>1A</b>
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F		<b>1B</b>
FM(XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>		<b>1C</b>
FM (XP) Class I, Div. 1, Groups A, B, C, D <sup>14)</sup>		<b>1D</b>
CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP) Class II, III, Div. 1, Groups E, F, G		<b>1E</b>
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G		<b>1F</b>
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>		<b>1G</b>
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>14)</sup>		<b>1H</b>
<b>Version/Material</b>		
Exchangeable cable Ø2 mm (0.08 inch) with gravity weight/316L <sup>8 9 11)</sup>		<b>A</b>
Exchangeable cable Ø2 mm (0.08 inch) center weight/316L <sup>8 9 12)</sup>		<b>B</b>
Exchangeable cable Ø4 mm (0.16 inch) with gravity weight/316L <sup>8 9 11)</sup>		<b>C</b>
Exchangeable cable Ø4 mm (0.16 inch) with center weight/316L <sup>8 9 12)</sup>		<b>D</b>
Exchangeable rod Ø8 mm (0.31 inch)/316L <sup>2 8 10 11)</sup>		<b>E</b>
Exchangeable rod Ø12 mm (0.47 inch)/316L <sup>3 8 10 11)</sup>		<b>F</b>
Coax version Ø21.3 mm (0.84 inch) with single hole/316L <sup>8 9 11)</sup>		<b>G</b>
Coax version Ø21.3 mm (0.84 inch) with multiple hole/316L <sup>8 9 11)</sup>		<b>H</b>
Coax version Ø21.3 mm (0.84 inch) for Ammonia application/316L <sup>4 8 9 11)</sup>		<b>J</b>
Coax version Ø42.2 mm (1.66 inch) with multiple hole/316L <sup>5 8 9 11)</sup>		<b>K</b>
<b>Process fitting/Material</b>		
Thread G 3/4" (DIN 3852-A) PN 6 / 316L		<b>00</b>
Thread 3/4" NPT (ASME B1.20.1) PN 6 / 316L		<b>01</b>
Thread G 3/4" (DIN 3852-A) PN 40 / 316L		<b>02</b>
Thread 3/4" NPT (ASME B1.20.1) PN 40 / 316L		<b>03</b>
Thread G 3/4" (DIN 3852-A) PN 100 / 316L		<b>04</b>
Thread 3/4" NPT (ASME B1.20.1) PN 100 / 316L		<b>05</b>

Selection and Ordering data		Article No.
<b>SITRANS LG250</b>		<b>7ML5881-</b>
A guided wave radar sensor for continuous level and interface measurement of liquids.		
Thread G 1" (DIN 3852-A) PN 40 / 316L		<b>06</b>
Thread 1" NPT (ASME B1.20.1) PN 40 / 316L		<b>07</b>
Thread G 1" (DIN 3852-A) PN 100 / 316L		<b>08</b>
Thread 1" NPT (ASME B1.20.1) PN 100 / 316L		<b>10</b>
Thread G 1 1/2" (DIN 3852-A) PN 40 / 316L		<b>11</b>
Thread 1 1/2" NPT (ASME B1.20.1) PN 40 / 316L		<b>12</b>
Thread G1 1/2" (DIN 3852-A) PN1 00 / 316L		<b>13</b>
Thread 1 1/2" NPT (ASME B1.20.1) PN 100 / 316L		<b>14</b>
Flange DN 25 PN 40 Form C, DIN 2501 / 316L		<b>20</b>
Flange DN 25 PN 40 Form F, DIN 2501 / 316L		<b>21</b>
Flange DN 40 PN 40 Form C, DIN 2501 / 316L		<b>22</b>
Flange DN 50 PN 40 Form C, DIN 2501 / 316L		<b>23</b>
Flange DN 50 PN 40 form V13, DIN 2513 / 316L		<b>24</b>
Flange DN 80 PN 40 Form C, DIN 2501 / 316L		<b>25</b>
Flange DN 80 PN 40 Form V13, DIN 2501 / 316L		<b>26</b>
Flange DN 100 PN 16 Form C, DIN 2501 / 316L		<b>27</b>
Flange DN 100 PN 16 Form C, DIN 2501 / 316L		<b>28</b>
Flange DN 100PN 40 Form C, DIN 2501 / 316L		<b>30</b>
Flange DN 100 PN 40 Form V13, DIN 2513 / 316L		<b>31</b>
Flange DN 150 PN 16 Form C, DIN 2501 / 316L		<b>32</b>
Flange DN 50 PN 40 EN1092-1 Form B1 / 316L		<b>33</b>
Flange DN 80 PN 40 EN1092-1 Form B1 / 316L		<b>34</b>
Flange 1" 150 lb RF, ANSI B16.5 / 316L		<b>35</b>
Flange 1 1/2" 150 lb RF, ANSI B16.5 / 316L		<b>36</b>
Flange 2" 150 lb RF, ANSI B16.5 / 316L		<b>37</b>
Flange 2" 300 lb RF, ANSI B16.5 / 316L		<b>38</b>
Flange 3" 150 lb RF, ANSI B16.5 / 316L		<b>40</b>
Flange 3" 300 lb RF, ANSI B16.5 / 316L		<b>41</b>
Flange 4" 150 lb RF, ANSI B16.5 / 316L		<b>42</b>
Flange 4" 300 lb RF, ANSI B16.5 / 316L		<b>43</b>
Flange 6" 150 lb RF, ANSI B16.5 / 316L		<b>44</b>
Flange 6" 300lb RF, ANSI B16.5 / 316L		<b>45</b>
<b>Electronics</b>		
Two-wire 4 ... 20mA/HART		<b>0</b>
Four-wire 4...20mA/HART; 90...253V AC; 50/60Hz <sup>15)</sup>		<b>3</b>
Four-wire 4...20mA/HART; 9.6...48V DC; 20...42V AC <sup>15)</sup>		<b>4</b>
<b>Seal/Second line of defense/Process temperature</b>		
FKM (SHS FPM 70C3 GLT)/without/-40 ... +80 °C (-40 ... +176 °F) <sup>6)</sup>		<b>A</b>
FKM (SHS FPM 70C3 GLT)/without/-40 ... +150 °C (-40 ... +302 °F)		<b>B</b>
FFKM (Kalrez 6375)/with/-20 ... +200 °C (-4 ... +392 °F)		<b>C</b>
EPDM (A+P 75.5/KW75F)/without/-40 ... +80 °C (-40 ... +176 °F)		<b>D</b>
EPDM (A+P 75.5/KW75F)/with/-40 ... +150 °C (-40 ... +302 °F)		<b>E</b>
FFKM (Kalrez 6375) /with/-20 ... +200 °C (-4 ... +392 °F)		<b>F</b>
EPDM (A+P 75.5/KW75F) /without/-40 ... +80°C (-40 ... +176 °F) <sup>6)</sup>		<b>G</b>
EPDM (A+P 75.5/KW75F) /without/-40 ... +150 °C (-40 ... +302 °F)		<b>H</b>
EPDM (A+P 75.5/KW75F) /with/-40 ... +150 °C (-40 ... +302 °F)		<b>J</b>
Silicone FEP coated(A+P FEP-O-SEAL)/without/-40 ... +80 °C (-40 ... +176 °F)		<b>K</b>

## Continuous level measurement – Guided wave radar transmitters

## SITRANS LG series

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<b>Selection and Ordering data</b>		Article No.	<b>Selection and Ordering data</b>	Article No.
<b>SITRANS LG250</b>		<b>7ML5881-</b>	<b>SITRANS LG250</b>	<b>7ML5881-</b>
A guided wave radar sensor for continuous level and interface measurement of liquids.		L	A guided wave radar sensor for continuous level and interface measurement of liquids.	
Silicone FEP coated(A+P FEP-O-SEAL)/without/-40 ... +150 °C (-40 ... +302 °F)		M	45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9R2Q
Silicone FEP coated(A+P FEP-O-SEAL)/with/-40 ... +150 °C (-40 ... +302 °F)		N	50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9R2R
With borosilicate glass leadthrough / with / -60 ... +150 °C (-76 ... +302 °F) <sup>7)</sup>		A	55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9R2S
		B	60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch)	9R2T
		C	65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch)	9R2U
		D	70 001 ... 75 000 mm (2 759.94 ... 2 952.76 inch)	9R2V
		E	Coax ø21.3 mm/316L	
		F	300 ... 1 000 mm (11.81 ... 39.37 inch)	9R3A
		G	1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9R3B
		H	2 001 ... 3 000 mm (78.78 ... 118.11 inch)	9R3C
		I	3 001 ... 4 000 mm (118.15 ... 157.48 inch)	9R3D
		J	4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9R3E
		K	5 001 ... 6 000 mm (196.89 ... 236.22 inch)	9R3F
		L	Coax ø42.2 mm/316L	
		M	300 ... 1 000 mm (11.81 ... 39.37 inch)	9R3G
		N	1 001 ... 2 000 mm (39.41 ... 78.74 inch)	9R3H
		O	2 001 ... 3 000 mm (78.78 ... 118.11 inch)	9R3J
		P	3 001 ... 4 000 mm (118.15 ... 157.48 inch)	9R3K
		Q	4 001 ... 5 000 mm (157.52 ... 196.85 inch)	9R3L
		R	5 001 ... 6 000 mm (196.89 ... 236.22 inch)	9R3M
		S		
		T		
		U		
		V		
<b>Lengths</b>			<b>Supplementary electronics</b>	
<u>Rod ø8 mm/316L</u>		0	Without <sup>1)</sup> <sup>13)</sup>	A00
300 ... 1 000 mm (11.81 ... 39.37 inch)		1	Additional current output 4 ... 20 mA <sup>1)</sup>	A01
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 ... 236.22 inch)				
<u>Rod ø12 mm/316L</u>			<b>Dimensions centering weight (diameter/height)</b>	
300 ... 1 000 mm (11.81 ... 39.37 inch)		9R2A	Without	B00
1 001 ... 2 000 mm (39.41 ... 196.85 inch)		9R2B	ø40/30 mm	B01
2 001 ... 3 000 mm (78.78 ... 118.11 inch)		9R2C	ø45/30 mm (for 2 inch tubes)	B02
3 001 ... 4 000 mm (118.15 ... 157.48 inch)		9R2D	ø75/30 mm (for 3 inch tubes)	B03
4 001 ... 5 000 mm (157.52 ... 196.85 inch)		9R2E	ø95/30 mm (for 4 inch tubes)	B04
5 001 ... 6 000 mm (196.89 ... 236.22 inch)		9R2F	ø1.57/1.18 inch (for 2 inch schedule 160)	B05
		9R2G	ø1.77/1.18 inch (for 2 inch schedule 40/80)	B06
		9R2H	ø2.95/1.18 inch (for 3 inch schedule 10/40)	B07
		9R2I	ø3.74/1.18 inch (for 4 inch schedule 80)	B08
			<b>Rod mounted</b>	
			Cable/not applicable	C00
			Mounted	C01
			Not mounted	C02
			<b>Indicating/adjustment module</b>	
			Without <sup>1)</sup>	E00
			Mounted <sup>1)</sup>	E01
			Laterally mounted <sup>1)</sup>	E02
			<b>Language of display</b>	
			German	L00
			English	L01
			French	L02
			Dutch	L03
			Italian	L04
			Spanish	L05
			Portuguese	L06
			Russian	L07
			Chinese	L08
			Japanese	L09
			<b>Operating instructions</b>	
			German	M01
			English	M01
			French	M02
			Spanish	M03

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

Selection and Ordering data	Order code
<b>Further designs</b>	
Please add "-Z" to Order No. and specify Order code(s).	
Enter the total insertion length in plain text description	<b>Y01</b>
Enter the total length of rigid part (cable version only)	<b>Y02</b>
Cleaning included certificate: oil, grease and silicone free	<b>W01</b>
Identification Label (measurement loop) stainless steel	<b>Y17</b>
Identification Label (measurement loop) Foil	<b>Y18</b>
3.1 Certificate instrument	<b>C12</b>
3.1 Certificate material (NACE0175)	<b>D07</b>
3.1-Certificate instrument with test data	<b>C25</b>
2.2-Certificate material	<b>C15</b>
Quality/test plan	<b>C26</b>
<b>Additional Operating Instructions</b>	Article No.
<b>German</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041010</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041011</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041012</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041013</b>
<b>English</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041047</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041048</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041049</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041050</b>
<b>French</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041121</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041122</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041123</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041124</b>
<b>Spanish</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041084</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041085</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041086</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041087</b>

- 1) Available with Housing/Protection cable options E, F, Q, R, and T only
- 2) Not available with Process fitting/Material options 00, 01, 02, 03, 04, and 05
- 3) Available with Process fitting/Material options 11,12,13, and 14 only
- 4) Available with Seal option N only
- 5) Not available with Process fitting/Material options 00 ... 10, and 35
- 6) Available with Process fitting /Material options 00 and 01
- 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
- 10) Available with Rod mounted options C01, C02 only
- 11) Available with centering weight option B00 only
- 12) Available with centering weight options B01 ... B08 only
- 13) Available with Housing/protection cable options A, B, C, D, L, M, N, P, and S only
- 14) Available with Housing/protection cable options C, D, L, M only
- 15) Available with Supplementary electronics A00 and Indicating/adjustment module E00, E01
- 16) Available with Supplementary electronics A01 approval options OA,OE,OH,OP and OQ

## Continuous level measurement – Guided wave radar transmitters

## SITRANS LG series

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Selection and Ordering data		Article No.	Selection and Ordering data		Article No.
<b>SITRANS LG260</b>		<b>7ML5882-</b>	<b>SITRANS LG260</b>		<b>7ML5882-</b>
A guided wave radar sensor for continuous level of solids.			A guided wave radar sensor for continuous level of solids.		
<b>Approvals</b>					
Ordinary location CE <sup>4)</sup>	0A		Flange DN 100 PN 16 Form C, DIN 2501/316L	13	
Shipping approval (GL)	0B		Flange DN 100 PN 40 Form C, DIN 2501/316L	14	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 <sup>4)</sup>	0E		Flange DN 150 PN 16 Form C, DIN 2501/316L	15	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval GL	0G		Flange DN 50 PN 40 EN1092-1 Form B1/316L	16	
ATEX II 1G, 1/2G, 2G Ex ia IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66 T <sup>4)</sup>	0H		Flange DN 80 PN 40 EN1092-1 Form B1/316L	17	
ATEX II 1/2G, 2G Ex d ia IIC T6 <sup>1)</sup>	0J		Flange DN 100 PN16 EN1092-1 Form B1/316L	18	
ATEX II 1/2G, 2G Ex d ia IIC + shipping approval (GL) <sup>1)</sup>	0L		Flange 2" 150 lb RF, ANSI B16.5/316L	30	
ATEX II 1/2G, 2G Ex d IIC + ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66	0M		Flange 2" 150 lb RF, ANSI B16.5/2 .4602(C-22) massive	31	
ATEX II 1D, 1/2D, 1/3D, 2D, Ex t IIIC IP66	0N		Flange 2" 300 lb RF, ANSI B16.5/316L	32	
ATEX II 1/2G, 2G Ex d IIC + shipping approval (GL) <sup>4)</sup>	0Q		Flange 3" 150 lb RF, ANSI B16.5/316L	33	
ATEX II 1/2G, 2G Ex d IIC + II 1D, 1/2D, 1/3D, 2D IP66	0R		Flange 3" 300 lb RF, ANSI B16.5/316L	34	
ATEX II 1D, 1/2D, 2D IP6x T	0S		Flange 4" 150 lb RF, ANSI B16.5/316L	35	
IEC Ex ia IIC T6	0T		Flange 4" 300 lb RF, ANSI B16.5/316L	36	
IEC Ex ia IIC T6 + IEC IP6x T tD	0U		Flange 6" 150 lb RF, ANSI B16.5/316L	37	
IEC Ex d ia IIC T6 <sup>1)</sup>	1A		<b>Electronics</b>		
IEC Ex d ia IIC T6 + IEC IP6x T tD	1B		Two-wire 4 ... 20mA/HART	0	
IEC Ex d IIC T6	1C		Four-wire 4...20mA/HART; 90...253V AC; 50/60Hz <sup>1)3)</sup>	3	
IEC Ex d IIC T6 + IEC IP6x T tD	1D		Four-wire 4...20mA/HART; 9.6...48V DC; 20...42 V AC <sup>1)3)</sup>	4	
FM (NI) Class I, Div. 2, Groups A, B, C, D	1F		<b>Seal/Process temperature</b>		
FM (NI) Class I, Div. 2, Groups A, B, C, D + shipping approval (GL)	1G		FKM (SHS FPM 70C3 GLT)/-40 ... +80 °C (-40 ... +176 °F)	A	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F	1H		FKM (SHS FPM 70C3 GLT)/-40 ... +150 °C (-40 ... +302 °F)	B	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval (GL)	1J		FFKM (Kalrez 6375)/-20 ... +200 °C (-4 ... +392 °F)	C	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>	1K		EPDM (A+P 75.5/KW75F)/without/-40 ... +80 °C (-40 ... +176 °F)	D	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval (GL) <sup>1)</sup>	1L		EPDM (A+P 75.5/KW75F)/without/-40 ... +150 °C (-40 ... +392 °F)	E	
FM (XP) Class I, Div. 1, Groups A, B, C, D	1M		<b>Housing/Protection/Cable</b>		
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G	1N		Plastic IP66/IP67 M20x1.5/blind stopper	A	
CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	1P		Plastic IP66/IP67 1/2" NPT/blind stopper	B	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>	1Q		Plastic 2-chamber/IP66/IP67/M20x1.5/blind stopper	C	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	1R		Plastic 2-chamber/IP66/IP67 /1/2" NPT/blind stopper	D	
<b>Version/Material</b>			Aluminium/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	E	
Exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316	A		Aluminium/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	F	
Exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316 <sup>2)</sup>	B		Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	G	
Exchangeable rod ø 16 mm (0.63 inch) / 316L <sup>2)</sup>	E		Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	H	
<b>Process fitting/Material</b>			Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	J	
Thread G 3/4" (DIN 3852-A) PN 40/316L	00		Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	L	
Thread 3/4" NPT (ASME B1.20.1) PN 40/316L	01		Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	M	
Thread G 1" (DIN 3852-A) PN 40/316L	02		Stainless steel double chamber/IP66/IP68 (0.2 bar) M20x1.5/blind stopper	N	
Thread 1" NPT (ASME B1.20.1) PN 40/316L	03		Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper	P	
Thread G 1 1/2" (DIN 3852-A) PN 40/316L	04		Stainless steel double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel	Q	
Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L	05		Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel	R	
Thread G 2" (DIN 3852-A) PN 40/316L	06				
Flange DN 50 PN 40 Form C, DIN 2501/316L	10				
Flange DN 50 PN 40 Form C, DIN 2501/2.4602(C22) massive	11				
Flange DN 80 PN 40 Form C, DIN 2501/316L	12				

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

Selection and Ordering data	Article No.
<b>SITRANS LG260</b>	<b>7ML5882-</b>
A guided wave radar sensor for continuous level of solids.	
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
<b>Lengths</b>	
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/316L	
501 ... 1 000 mm (19.72 ... 39.37 inch)	9R2E
1 001 ... 5 000 mm (39.41 ... 196.85 inch)	9R2F
5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9R2G
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9R2H
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9R2J
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9R2K
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9R2L
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9R2M
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9R2N
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9R2P
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9R2Q
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9R2R
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9R2S
Cable lengths ø6 mm/316L	
500 mm (19.69 inch)	9R3A
501 ... 1 000 mm (19.72 ... 39.37 inch)	9R3B
1 000 ... 5 000 mm (39.37 ... 196.85 inch)	9R3C
5 001 ... 10 000 mm (196.89 ... 393.70 inch)	9R3D
10 001 ... 15 000 mm (393.74 ... 590.55 inch)	9R3E
15 001 ... 20 000 mm (590.59 ... 787.40 inch)	9R3F
20 001 ... 25 000 mm (787.44 ... 984.25 inch)	9R3G
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)	9R3H
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)	9R3J
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)	9R3K
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)	9R3L
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)	9R3M
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)	9R3N
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)	9R3P
<b>Supplementary electronics</b>	
Without <sup>1)</sup>	A00
Additional current output 4 ... 20 mA <sup>1)</sup>	A01
<b>Rod mounted</b>	
Cable/not applicable	C00
Mounted	C01
Not mounted	C02
<b>Indicating/adjustment module</b>	
Without <sup>1)</sup>	E00
Mounted <sup>1)</sup>	E01
Laterally mounted <sup>1)</sup>	E02

Selection and Ordering data	Article No.
<b>SITRANS LG260</b>	<b>7ML5882-</b>
A guided wave radar sensor for continuous level of solids.	
<b>Language of display</b>	
German	L00
English	L01
French	L02
Dutch	L03
Italian	L04
Spanish	L05
Portuguese	L06
Russian	L07
Chinese	L08
Japanese	L09
<b>Operating instructions</b>	
German	M01
English	M01
French	M02
Spanish	M03

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data	Order code
<b><i>Further designs</i></b>	
Please add "-Z" to Order No. and specify Order code(s).	
Enter the total insertion length in plain text description	<b>Y01</b>
Enter the total length of rigid part (cable version only)	<b>Y02</b>
Cleaning included certificate: oil, grease and silicone free	<b>W01</b>
Identification Label (measurement loop) stainless steel	<b>Y17</b>
Identification Label (measurement loop) Foil	<b>Y18</b>
3.1 Certificate instrument	<b>C12</b>
3.1 Certificate material (NACE0175)	<b>D07</b>
3.1-Certificate instrument with test data	<b>C25</b>
2.2-Certificate material	<b>C15</b>
Quality/test plan	<b>C26</b>
<b><i>Operating Instructions</i></b>	Article No.
<b>German</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041020</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041021</b>
<b>English</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041057</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041058</b>
<b>French</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041131</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041132</b>
<b>Spanish</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041094</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041095</b>

- 1) Available with Housing/Protection/Cable options G, H, N, and P only
- 2) Not available with Proces/Fitting/Material options 00, 01, 02, and 03
- 3) Available with Supplementary electronics A00 and Indicating/adjustment module E00, E01
- 4) Available with Supplementary electronics A01 approval options 0A, 0E, 0H and 0Q

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

Selection and Ordering data		Article No.
<b>SITRANS LG270</b>		<b>7ML5883-</b>
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
<b>Approvals</b>		
Ordinary location CE <sup>3)</sup>	0A	
Shipping approval (GL)	0B	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 <sup>3)</sup>	0E	
ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval GL	0G	
ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x <sup>3)</sup>	0H	
ATEX II 1/2G, 2G Ex d ia IIC T6 <sup>1)</sup>	0J	
ATEX II 1/2G, 2G Ex d ia IIC + ship (GL) <sup>1)</sup>	0L	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x	0M	
ATEX II 1/2G, 2G Ex d ia IIC T6	0N	
ATEX II 1/2G, 2G Ex d IIC + ship approval (GL) <sup>3)</sup>	0Q	
ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x	0R	
ATEX II 1D, 1/2D, 2D IP6x T	0S	
IEC Ex ia IIC T6	0T	
IEC Ex ia IIC T6 + IEC IP6x T tD	0U	
IEC Ex d ia IIC T6 <sup>1)</sup>	1A	
IEC Ex d ia IIC T6 + IEC IP6x T tD	1B	
IEC Ex d IIC T6	1C	
IEC Ex d IIC T6 + IEC IP6x T tD	1D	
FM (NI) Class I, Div.2, Groups A, B, C, D	1F	
FM (NI) Class I, Div.2, Groups A, B, C, D + ship approval (GL)	1G	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F	1H	
FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + ship approval (GL)	1J	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>	1K	
FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval (GL) <sup>1)</sup>	1L	
FM (XP) Class I, Div.1, Groups A, B, C, D	1M	
CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div.1, Groups E, F, G	1N	
CSA (IS) Class I, II, III, Div.1, Groups A, B, C, D, E, F, G	1P	
CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G <sup>1)</sup>	1Q	
CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G	1R	
<b>Version/Material</b>		
Exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316L	A	
Exchangeable cable ø2 mm (0.08 inch) center weight/316L	B	
Exchangeable cable ø4 mm (0.16 inch) with gravity weight/316L	C	
Exchangeable cable ø4 mm (0.16 inch) with center weight/316L	D	
Exchangeable rod ø 16 mm (0.63 inch) /316L	E	
Coax version ø 42.2 mm (1.66 inch) with multiple hole/316L	F	
Coax version ø 42.2 mm (1.66 inch); multiple hole; reference distances/316L	G	
<b>Process fitting/Material</b>		
Thread G 1 1/2" (DIN 3852-A) PN400/316L	00	
Thread 1 1/2" NPT (ASME B1.20.1) PN400/316L	01	
Thread 1 1/2" NPT (ASME B1.20.1) PN400/C22	02	
Flange DN 50 PN 40 Form C, DIN 2501/316L	10	
Flange DN 50 PN 40 form V13, DIN 2513/316L	11	
Flange DN 65 PN 64 Form V13, DIN 2501/316L	12	

Selection and Ordering data		Article No.
<b>SITRANS LG270</b>		<b>7ML5883-</b>
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		
Flange DN 80 PN 40 Form C, DIN 2501/316L	13	
Flange DN 80 PN 40 Form V13, DIN 2501/316L	14	
Flange DN 80 PN 100 Form L, DIN 2501/316L	15	
Flange DN 100 PN 16 Form C, DIN 2501/316L	16	
Flange DN 100 PN 16 Form C, DIN 2501/316L	17	
Flange DN 100 PN 40 Form C, DIN 2501/316L	18	
Flange DN 100 PN 40 Form V13, DIN 2513/316L	20	
Flange DN 150 PN 16 Form C, DIN 2501/316L	21	
Flange DN 50 PN 40 EN1092-1 Form B1/316L	22	
Flange DN 100 PN 160 GOST 12815-80.7/316L	23	
Flange 2" 150 lb RF, ANSI B16.5/316L	30	
Flange 2" 300 lb RF, ANSI B16.5/316L	31	
Flange 2" 600 lb RF, ANSI B16.5/316L	32	
Flange 2" 1 500 lb RF, ANSI B16.5/316L	33	
Flange 3" 150 lb RF, ANSI B16.5/316L	34	
Flange 3" 300 lb RF, ANSI B16.5/316L	35	
Flange 3" 600 lb RF, ANSI B16.5/316L	36	
Flange 3" 900 lb RF, ANSI B16.5/316L	37	
Flange 3" 2 500 lb RF, ANSI B16.5/316L	38	
Flange 3 1/2" 600 lb RF, ANSI B16.5/316L	40	
Flange 4" 150 lb RF, ANSI B16.5/316L	41	
Flange 4" 300 lb RF, ANSI B16.5/316L	42	
Flange 4" 600 lb RF, ANSI B16.5/316L	43	
Flange 6" 150 lb RF, ANSI B16.5/316L	44	
Flange 6" 300 lb RF, ANSI B16.5/316L	45	
Flange 6" 600 lb RF, ANSI B16.5/316L	46	
Flange 2"150 lb Fisher special return/316L	47	
<b>Electronics</b>		
Two-wire 4 ... 20mA/HART	0	
Four-wire 4...20mA/HART; 90...253V AC; 50/60Hz <sup>1,2)</sup>	3	
Four-wire 4...20mA/HART; 9.6...48V DC; 20...42 V AC <sup>1,2)</sup>	4	
<b>Seal/Second line of defense/Process temperature</b>		
Ceramic-graphite/with/-196 ... +280 °C (-321 ... +536 °F)	A	
Ceramic-graphite /with/-196 ... +450 °C (-321 ... +842 °F)	B	
<b>Housing/Protection/Cable</b>		
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	

## Continuous level measurement – Guided wave radar transmitters

## SITRANS LG series

<b>Selection and Ordering data</b>		Article No.	
<b>SITRANS LG270</b>		<b>7ML5883-</b>	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications		R	
Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper		S	
Aluminium/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		T	
Aluminium double chamber/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel		U	
Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20x1.5/Cable gland stainless steel		V	
Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20x1.5/cable gland stainless steel			
<b>Lengths</b>			
<u>Rod ø16 mm/316L</u>		0	
300 mm (11.81 inch)		1	
500 mm (19.69 inch)		2	
501 ... 1 000 mm (19.72 ... 39.37 inch)		3	
1 001 ... 2 000 mm (39.41 ... 78.74 inch)		4	
2 001 ... 3 000 mm (78.78 ... 118.11 inch)		5	
3 001 ... 4 000 mm (118.15 ... 157.48 inch)		6	
4 001 ... 5 000 mm (157.52 ... 196.85 inch)		7	
5 001 ... 6 000 mm (196.89 ... 216.53 inch)		9R2E	
<u>Cable lengths ø2 or 4 mm/316L</u>		9R2F	
501 ... 1 000 mm (19.72 ... 39.37 inch)		9R2G	
1 001 ... 5 000 mm (39.37 ... 196.85 inch)		9R2H	
5 001 ... 10 000 mm (196.89 ... 393.70 inch)		9R2J	
10 001 ... 15 000 mm (393.74 ... 590.55 inch)		9R2K	
15 001 ... 20 000 mm (590.59 ... 787.40 inch)		9R2L	
20 001 ... 25 000 mm (787.44 ... 984.25 inch)		9R2M	
25 001 ... 30 000 mm (984.29 ... 1 181.10 inch)		9R2N	
30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch)		9R2P	
35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch)		9R2Q	
40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch)		9R2R	
45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch)		9R2S	
50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch)		9R3G	
55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch)		9R3H	
<u>Coax ø42.2 mm/316L</u>		9R3J	
300 ... 1 000 mm (11.81 ... 39.37 inch)		9R3K	
1 001 ... 2 000 mm (39.41 ... 78.74 inch)		9R3L	
2 001 ... 3 000 mm (78.78 ... 118.11 inch)		9R3M	
3 001 ... 4 000 mm (118.15 ... 157.48 inch)			
4 001 ... 5 000 mm (157.52 ... 196.85 inch)			
5 001 ... 6 000 mm (196.89 ... 236.22 inch)			
<b>Selection and Ordering data</b>		<b>Article No.</b>	
<b>SITRANS LG270</b>		<b>7ML5883-</b>	
A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications			
<b>Supplementary electronics</b>			
Without <sup>1)</sup>		A00	
Additional current output 4 ... 20 mA <sup>1)</sup>		A01	
<b>Dimensions centering weight (diameter/height)</b>			
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	
<b>Rod mounted</b>			
Cable/not applicable		C00	
Mounted		C01	
Not mounted		C02	
<b>Indicating/adjustment module</b>			
Without <sup>1)</sup>		E00	
Mounted <sup>1)</sup>		E01	
Laterally mounted <sup>1)</sup>		E02	
<b>Language of display</b>			
German		L00	
English		L01	
French		L02	
Dutch		L03	
Italian		L04	
Spanish		L05	
Portuguese		L06	
Russian		L07	
Chinese		L08	
Japanese		L09	
<b>Operating instructions</b>			
German		M01	
English		M01	
French		M02	
Spanish		M03	

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

Selection and Ordering data	Order code
<b>Further designs</b>	
Please add "-Z" to Order No. and specify Order code(s).	
Enter the total insertion length in plain text description	<b>Y01</b>
Enter the total length of rigid part (cable version only)	<b>Y02</b>
Cleaning included certificate: oil, grease and silicone free	<b>W01</b>
Identification Label (measurement loop) stainless steel	<b>Y17</b>
Identification Label (measurement loop) Foil	<b>Y18</b>
3.1 Certificate instrument	<b>C12</b>
3.1 Certificate material (NACE0175)	<b>D07</b>
3.1-Certificate instrument with test data	<b>C25</b>
2.2-Certificate material	<b>C15</b>
Quality/test plan	<b>C26</b>
<b>Additional Operating Instructions</b>	Article No.
<b>German</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041025</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041026</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041027</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041028</b>
<b>English</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041062</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041063</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041064</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041065</b>
<b>French</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041136</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041137</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041138</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041139</b>
<b>Spanish</b>	
4 ... 20 mA/HART - two-wire	<b>PBD-51041099</b>
4 ... 20 mA/HART - two-wire coax probe	<b>PBD-51041100</b>
4 ... 20 mA/HART - four-wire	<b>PBD-51041101</b>
4 ... 20 mA/HART - four-wire coax probe	<b>PBD-51041102</b>

- 1) Available with Housing/Protection/Cable options E, F, Q, R, and T
- 2) Available with Supplementary electronics A00 and Indicating/adjustment module E00, E01
- 3) Available with Supplementary electronics A01 approval options OA,OE,OH, and OQ

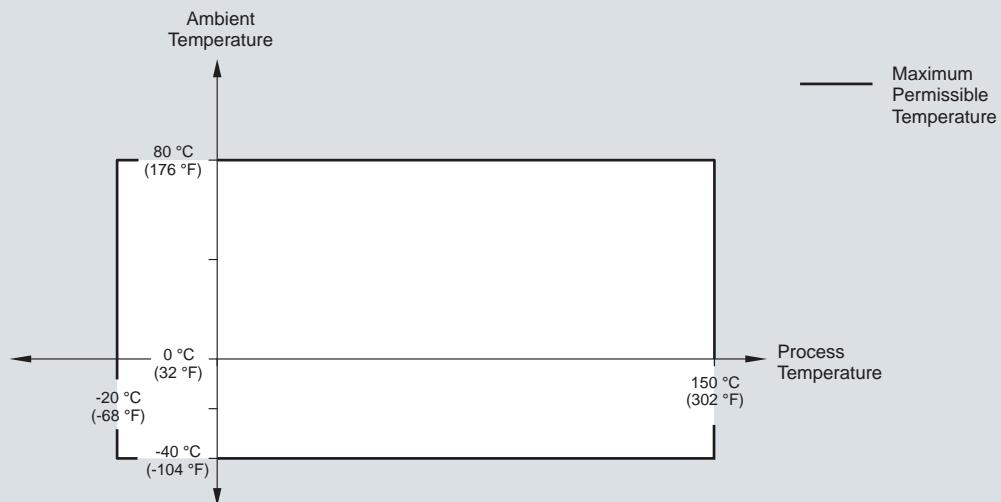
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

SITRANS LG series

### Characteristics Curves

SITRANS LG240, Ambient temperature/process temperature, standard version



SITRANS LG240, ambient temperature/process temperature curve

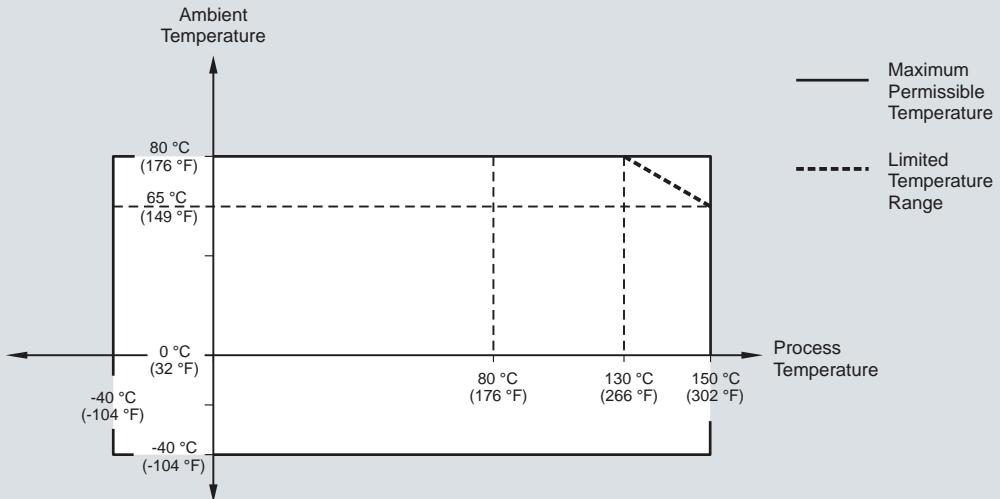
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

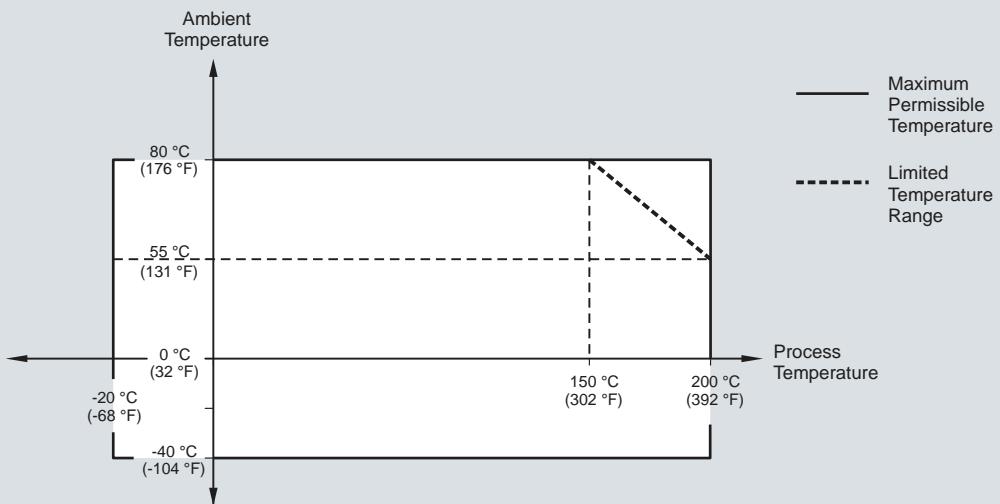
### SITRANS LG series

#### Characteristics Curves

**SITRANS LG250, Ambient temperature/process temperature, standard version**



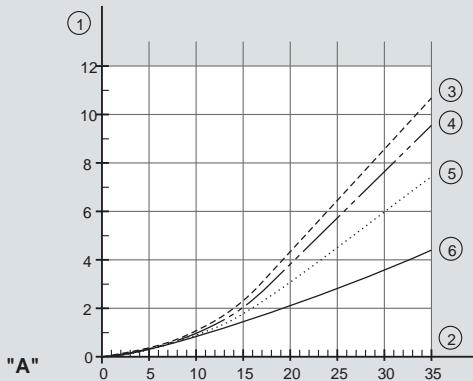
**SITRANS LG250, Ambient temperature/process temperature, temperature adapter version**



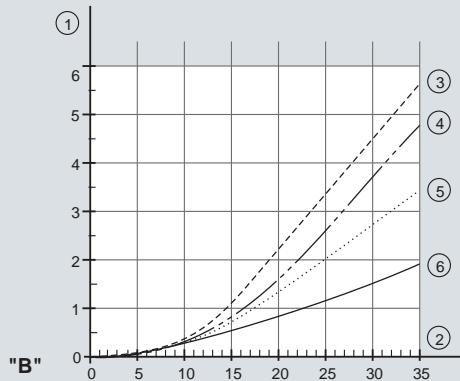
SITRANS LG250, ambient temperature/process temperature curves

## Characteristics Curves

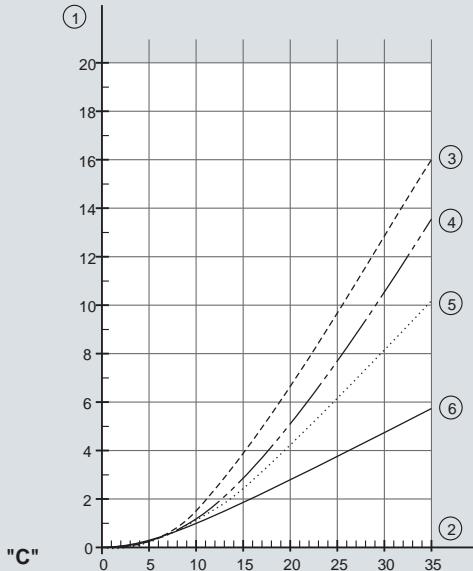
SITRANS LG260, Maximum tensile load with cereals and plastic granules - cable: ø 4 mm (0.157 inch)



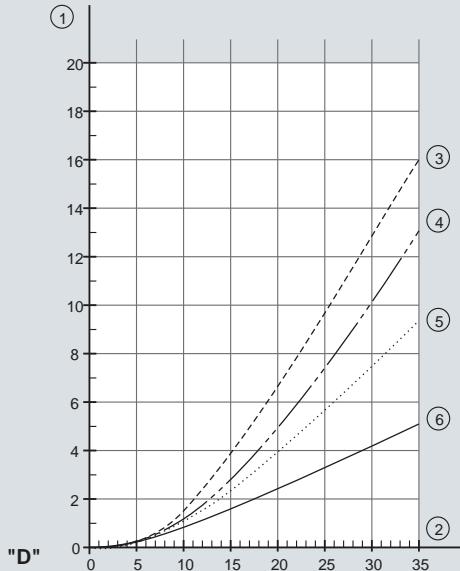
- A. Cereals  
B. Plastic granules  
1. Tensile force in kN (the determined value must be multiplied with safety factor 2)  
2. Cable length in m  
3. Vessel diameter 12 m (39.37 ft)  
4. Vessel diameter 9 m (29.53 ft)  
5. Vessel diameter 6 m (19.69 ft)  
6. Vessel diameter 3 m (9.843 ft)



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

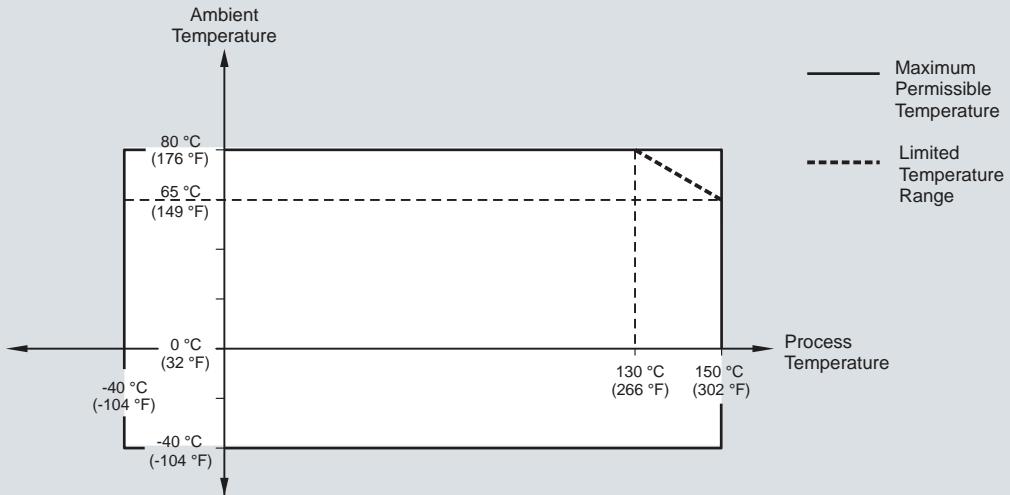
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

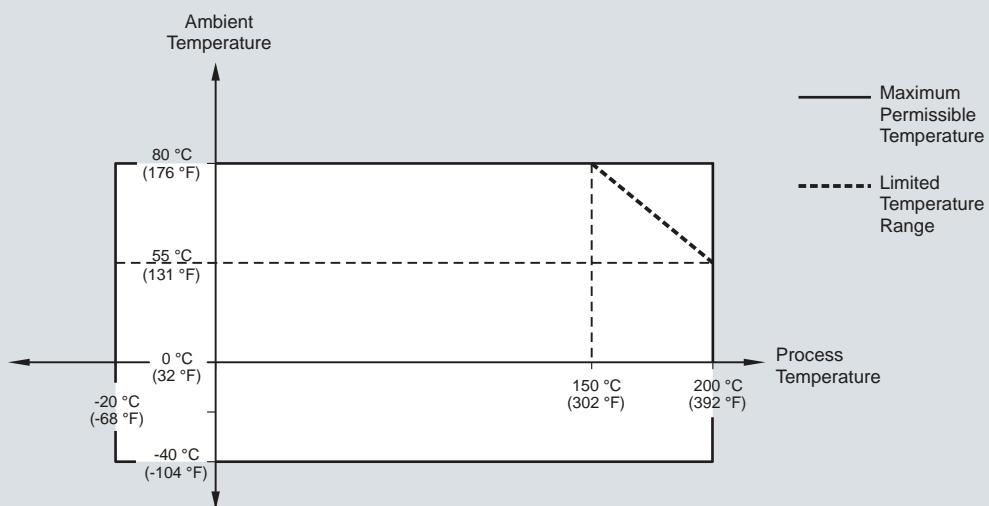
### SITRANS LG series

#### Characteristics 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)**



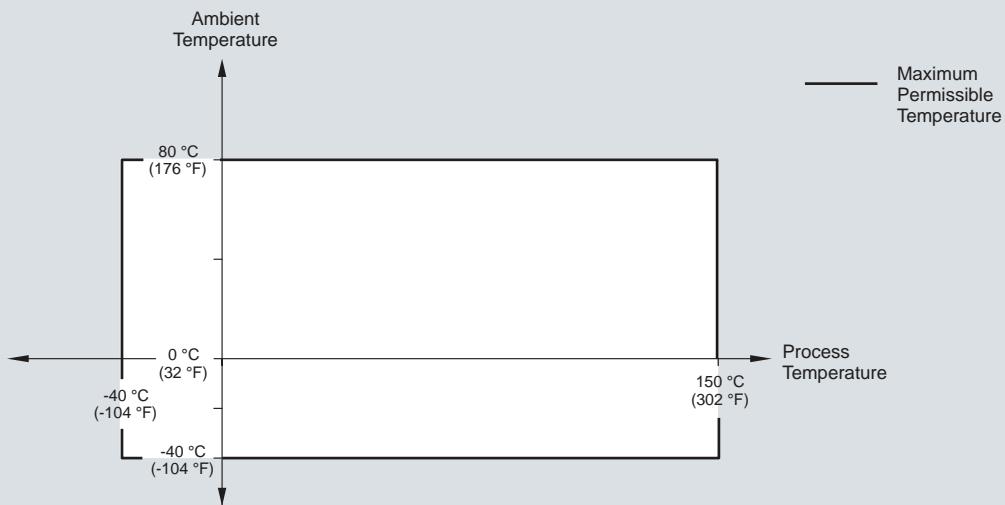
SITRANS LG260, ambient temperature/process temperature curves

## Characteristics Curves

**SITRANS LG260, Ambient temperature/process temperature, standard version**

Cable version with ø 6 mm (0.236 inch)

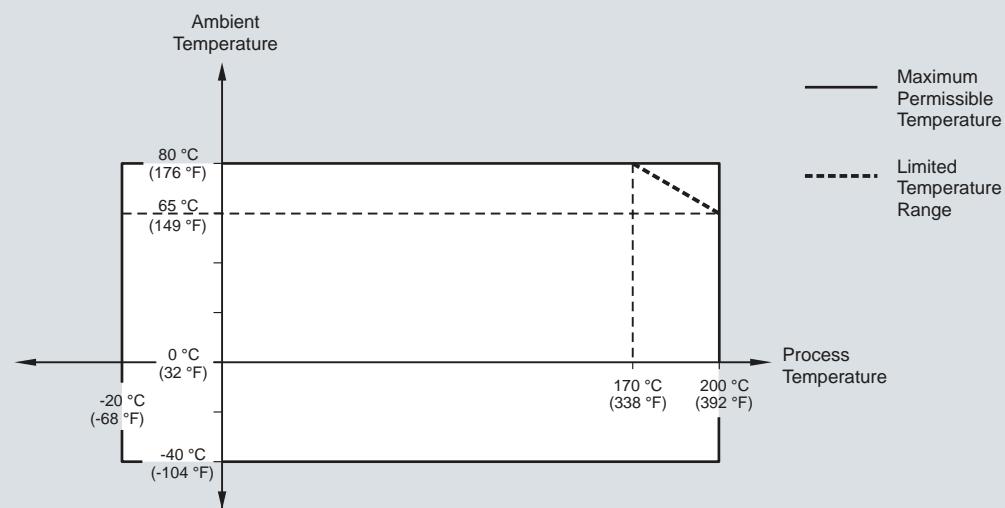
Cable version, PA coated with ø 11 mm (0.433 inch)



**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

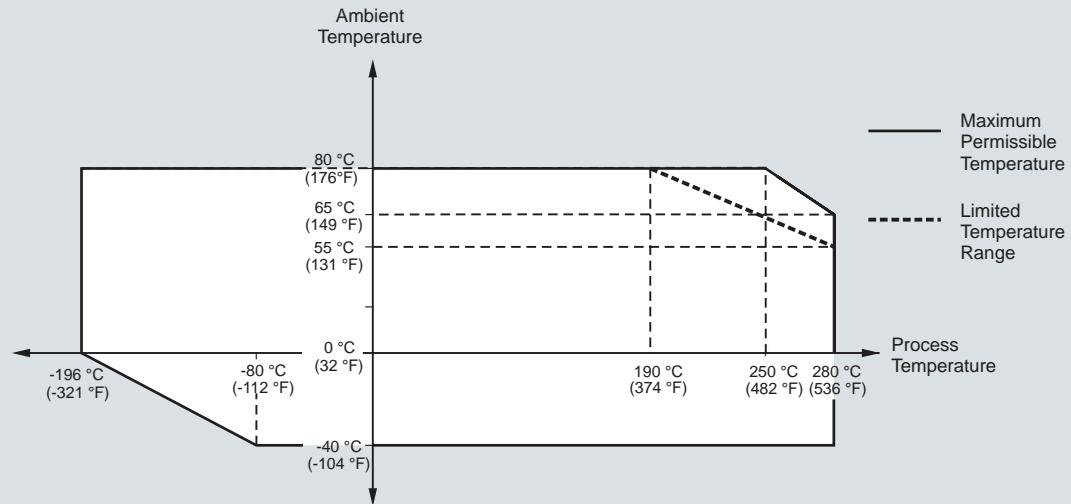
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

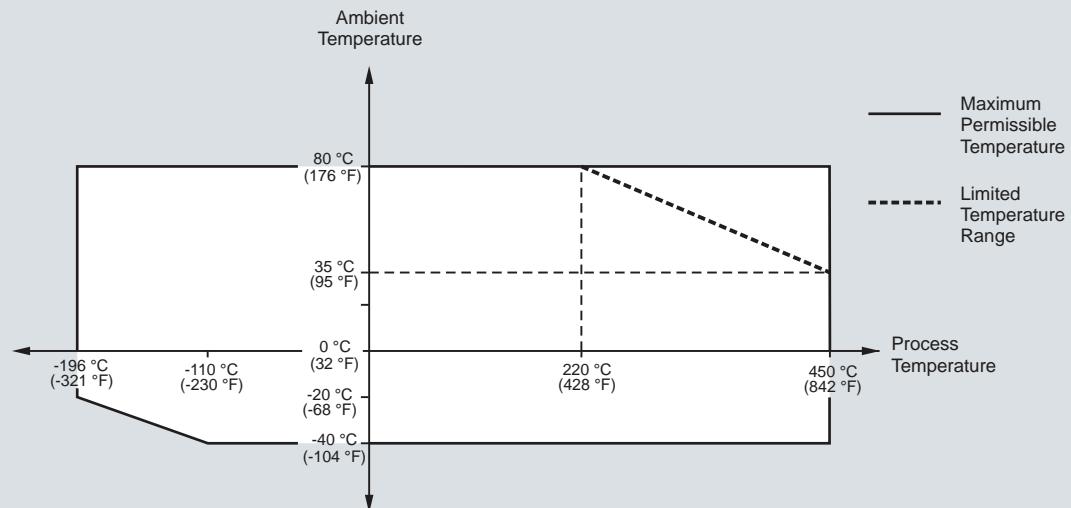
### SITRANS LG series

#### Characteristics Curves

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



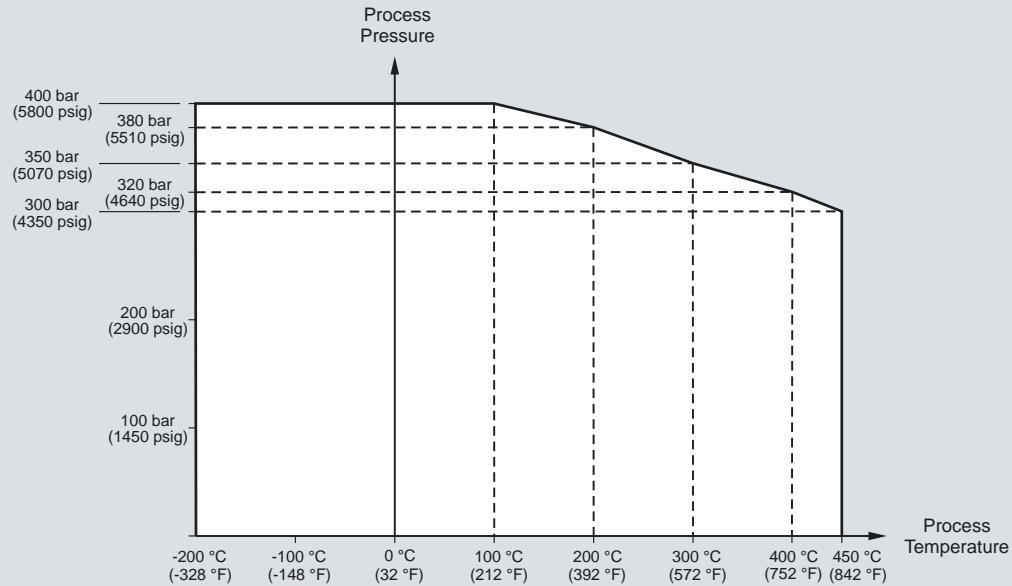
**SITRANS LG270, Ambient temperature/process temperature ( -196 ... +450 °C/-321 ... +842 °F version)**



SITRANS LG270, ambient temperature/process temperature curves

## Characteristics Curves

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



SITRANS LG270, process pressure/process temperature curve

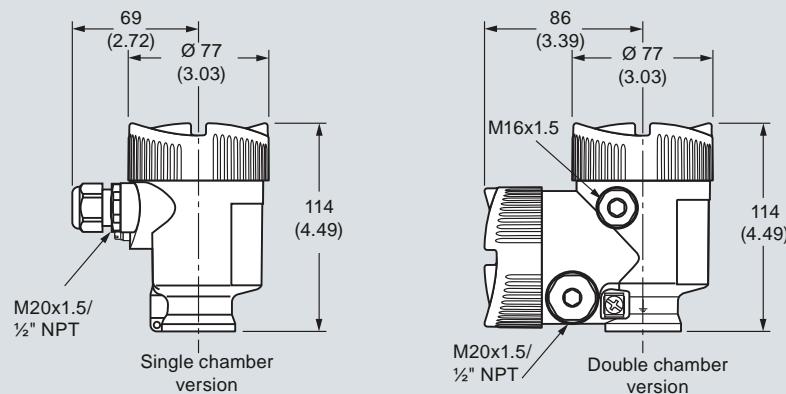
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

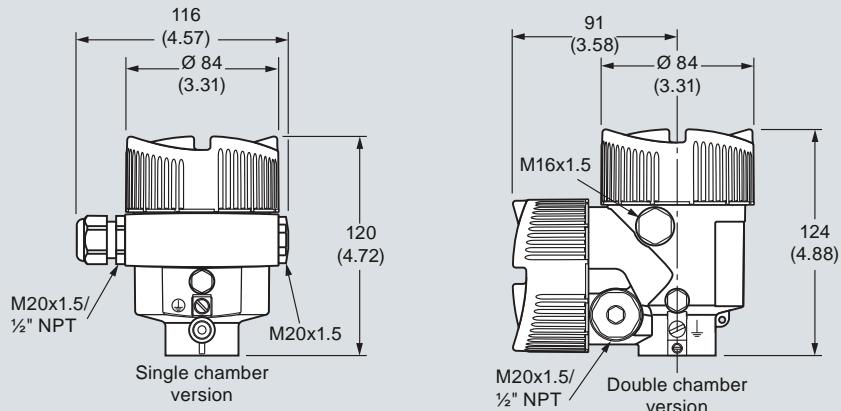
### SITRANS LG series

#### Dimensional drawings

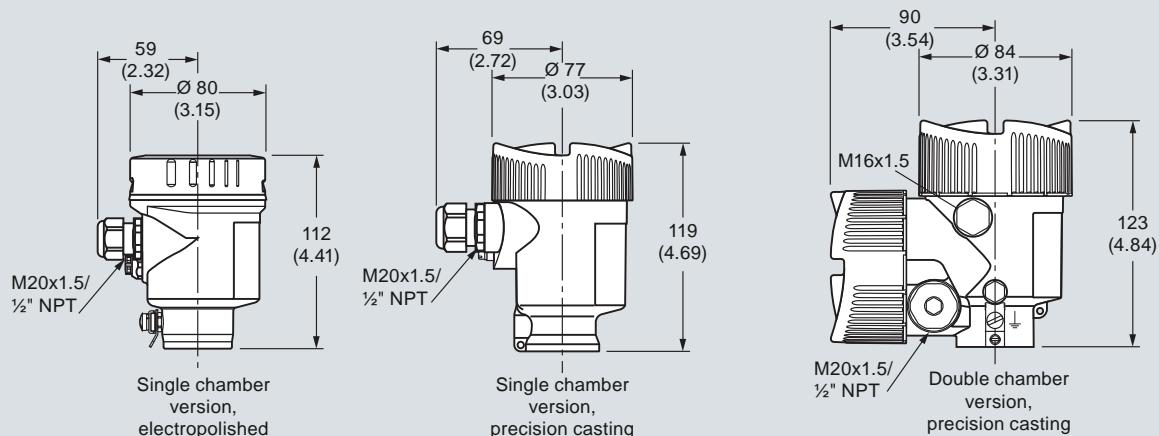
##### LG Series plastic housing



##### LG Series aluminum housing



##### LG Series stainless steel housing



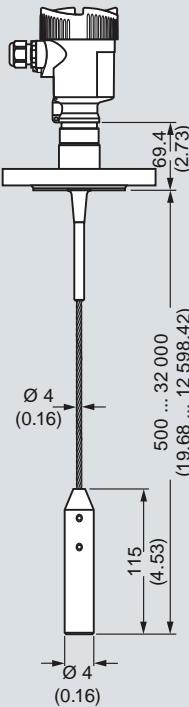
Note: For integrated display and adjustment module the housing is 9 (0.35) higher for all housing options

SITRANS LG series, dimensions in mm (inch)

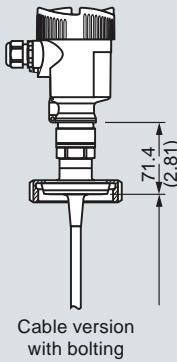
## Dimensional drawings

SITRANS LG240

Cable version Ø 4 (0.157), PFA coated

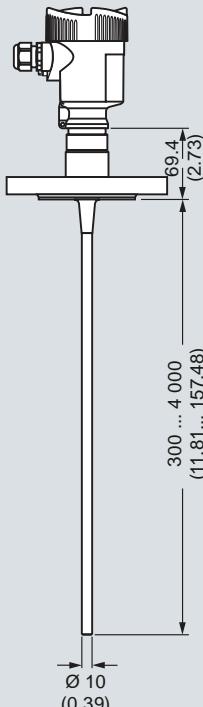


Cable version with clamp

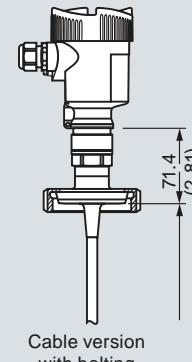


Cable version with bolting

Rod version Ø 10 (0.394), PFA coated

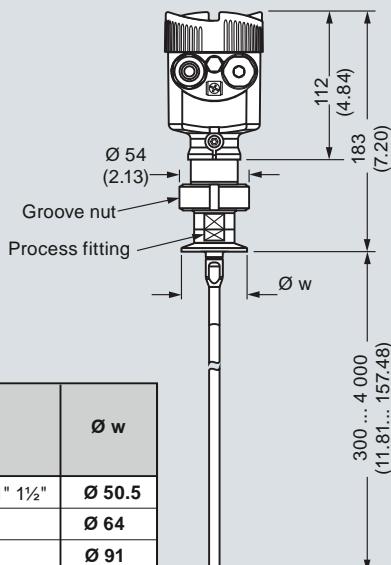


Cable version with clamp

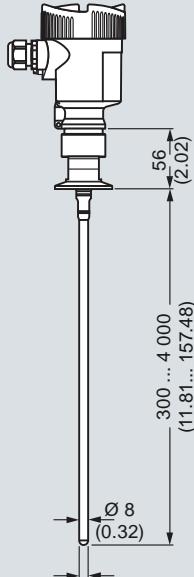


Cable version with bolting

Autoclaved version



Rod version Ø 8 (0.315), polished



	Ø W
DIN DN25 DN32 DN40/ 1" 1½"	Ø 50.5
DIN DN50/ 2"	Ø 64
DIN DN65/ 3"	Ø 91

SITRANS LG240, dimensions in mm (inch)

# Level measurement

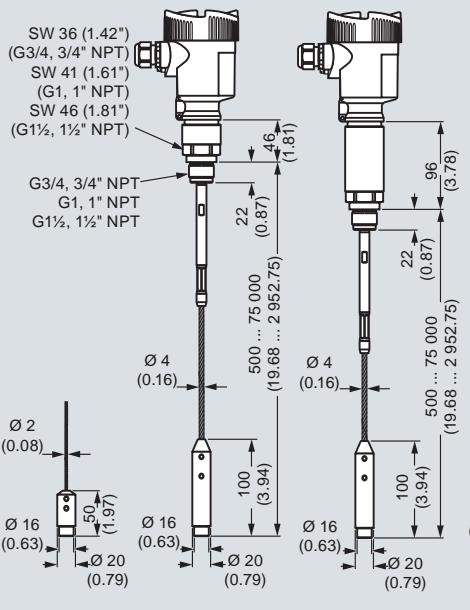
## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

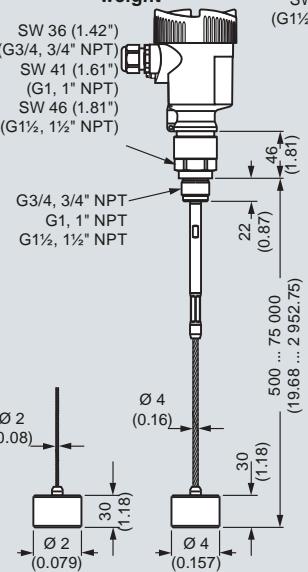
#### Dimensional drawings

##### SITRANS LG250

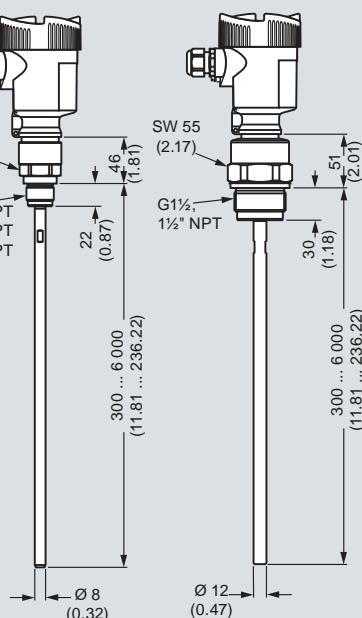
###### Cable version with gravity weight



###### Cable version with centering weight



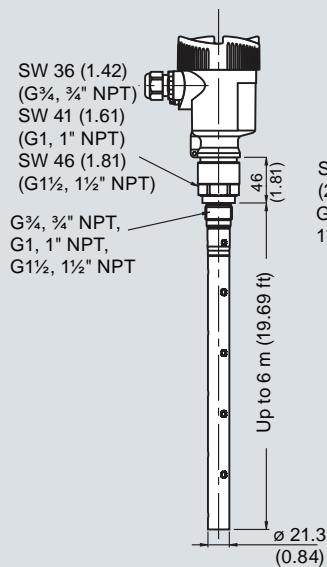
###### Rod version



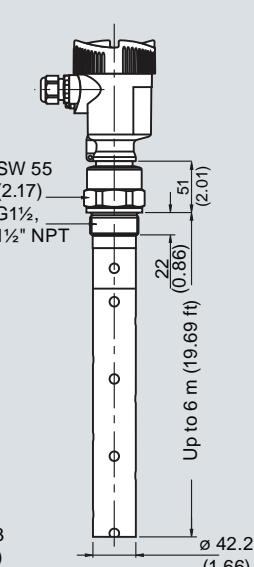
SITRANS LG250, dimensions in mm (inch)

##### SITRANS LG250, coax version

###### Coaxial version ø 21.3 (0.839)



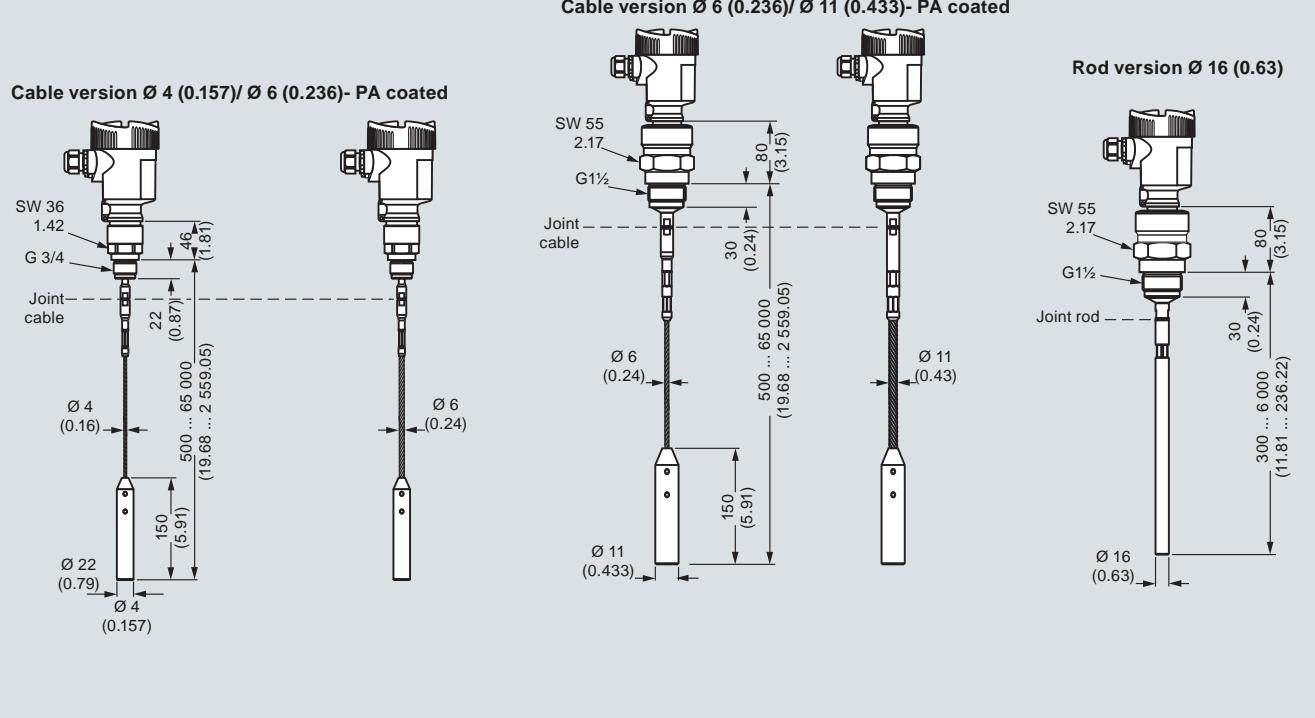
###### Coaxial version ø 42.2 (1.661)



SITRANS LG250, dimensions in mm (inch)

## Dimensional drawings

SITRANS LG260



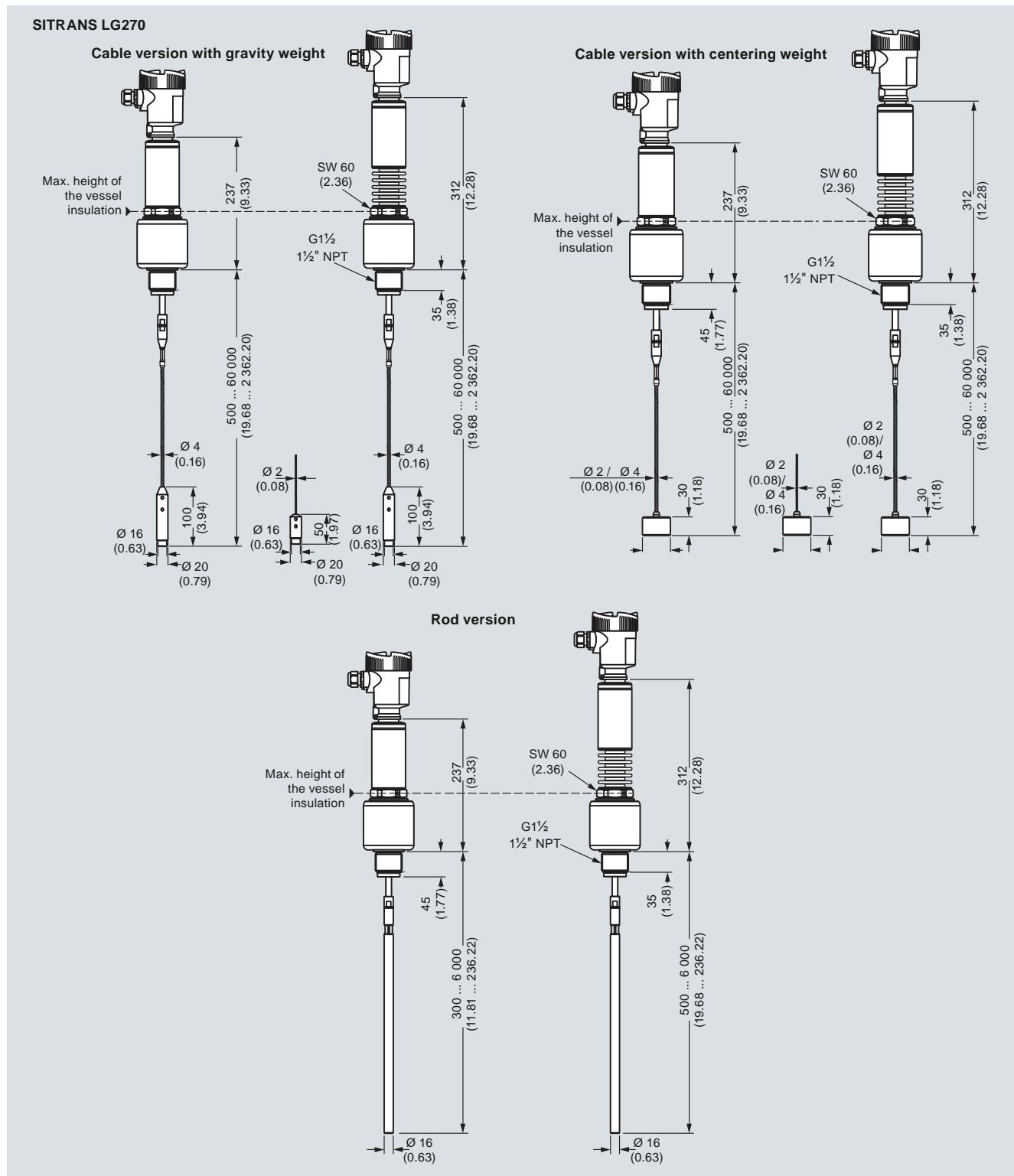
SITRANS LG260, dimensions in mm (inch)

# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

#### Dimensional drawings



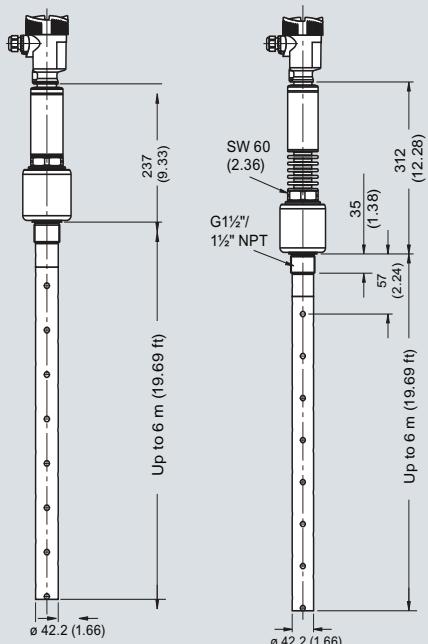
SITRANS LG270, dimensions in mm (inch)

## Dimensional drawings

SITRANS LG270, coax version

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

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



SITRANS LG270, dimensions in mm (inch)

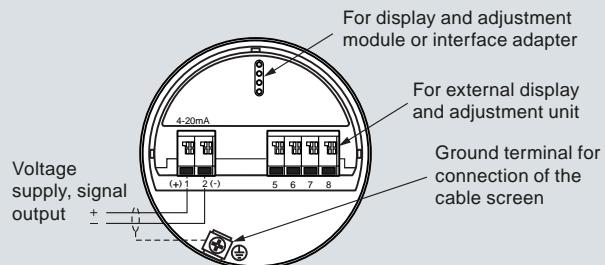
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

### SITRANS LG series

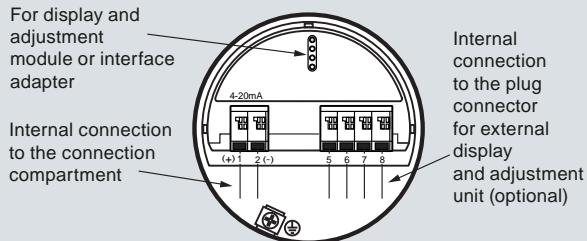
#### Schematics

**Electronics and connection compartment, single and double chamber housing**

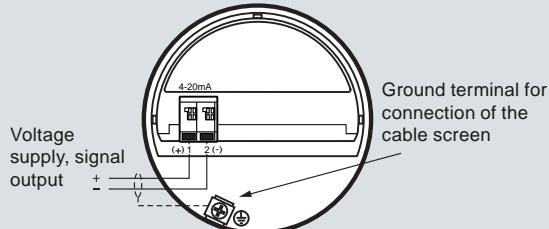


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**Electronics compartment, double chamber housing**



**Connection compartment, Ex-d-ia double chamber housing**



SITRANS LG series, connections

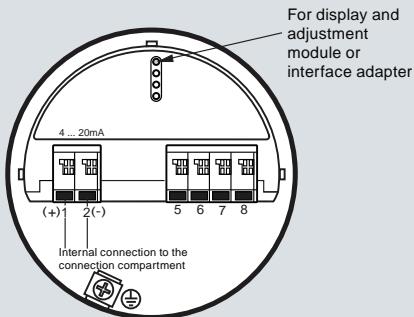
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

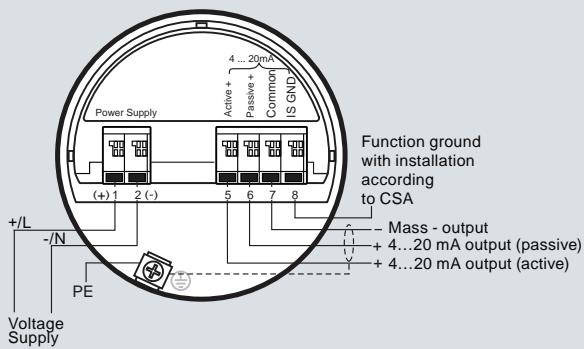
SITRANS LG series

### Schematics

**Electronics compartment, double chamber housing**



**Connection compartment with double chamber housing with mains voltage**



SITRANS LG series, connections

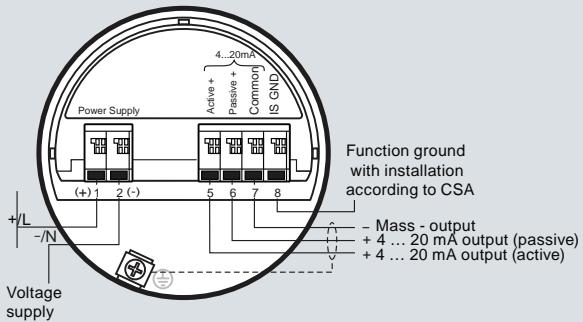
# Level measurement

## Continuous level measurement – Guided wave radar transmitters

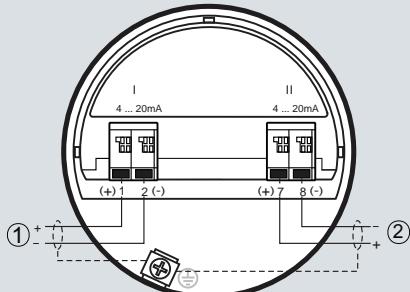
### SITRANS LG series

#### Schematics

##### Connection compartment with low voltage



##### 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)

SITRANS LG series, connections