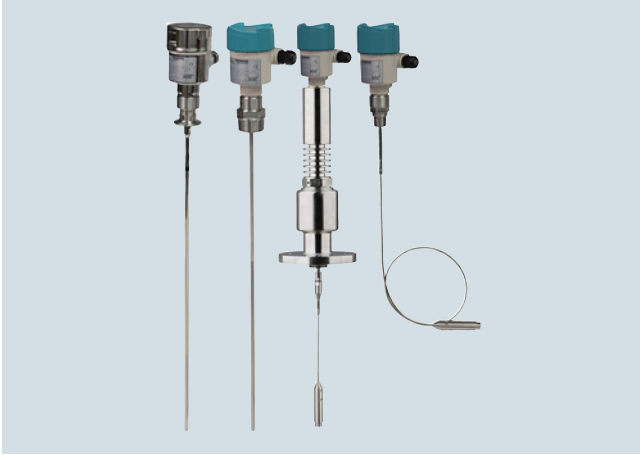


Overview



The Siemens SITRANS LG series are guided wave radar transmitters for level, level/interface, and volume measurement of liquids and solids. The SITRANS LG product line can handle changes in process conditions, high temperatures and pressures, and steam.

Benefits

- High accuracy to +/- 2 mm
- Advanced Diagnostics available for high degree of safety
- Simple menu driven display offers ease of setup
- Large range of options offers reliability in most continuous level measurement applications
- Ease of maintenance through module design and field replaceable and adjustable probe options
- Perfect solution for wide range of applications from storage to interface with options for extreme pressure and temperature conditions
- Universally applicable in liquids, interface, slurries and solids
- Highly immune to buildup using auto learn function
- Ability to measure in loss of echo situations with probe end tracking
- Suitable for API 2350

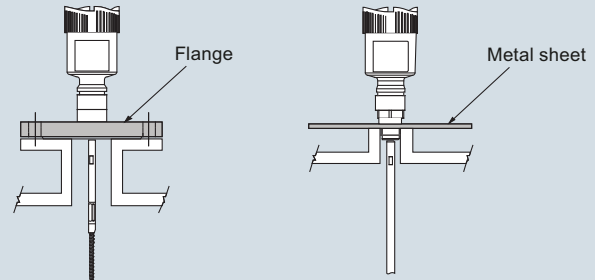
Application

The SITRANS LG series comes in four different models, depending on the applications, level of performance, and functionality required:

- SITRANS LG240 offers configuration options for your hygienic and corrosive application requirements
- SITRANS LG250 Highly flexible solution for liquid level and interface applications. Extremely versatile offering solutions for storage, separation of materials or difficult ammonia applications
- SITRANS LG260 Ideal for measuring level in medium range solids applications including; grains, plastics, and cement
- SITRANS LG270 offers configuration options for extreme conditions including high temperature and high pressure applications such as: harsh applications found in chemical, HPI and energy industries for example, LPG gas tanks, steam boilers and distillation columns

Configuration

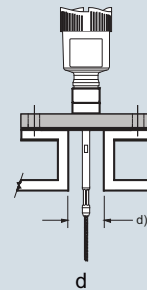
Mounting on nozzle



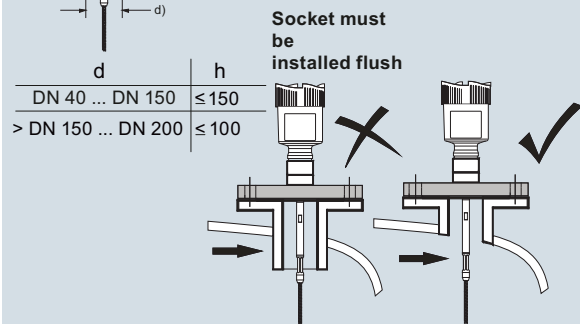
Installation in non-metal vessel

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

Mounting socket



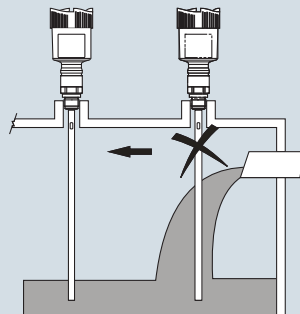
If possible, avoid sockets, mount the sensor flush with the vessel top. If this is not possible, use short sockets with small diameter. Higher sockets or sockets with a bigger diameter can generally be used. They simply increase the upper blocking distance. Check if this is relevant for your measurement.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



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

Socket must be installed flush

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



Inflowing medium

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

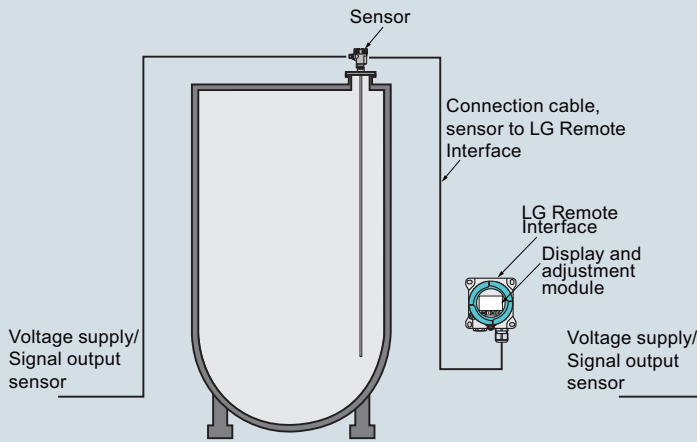
SITRANS LG Series installation

Level Measurement

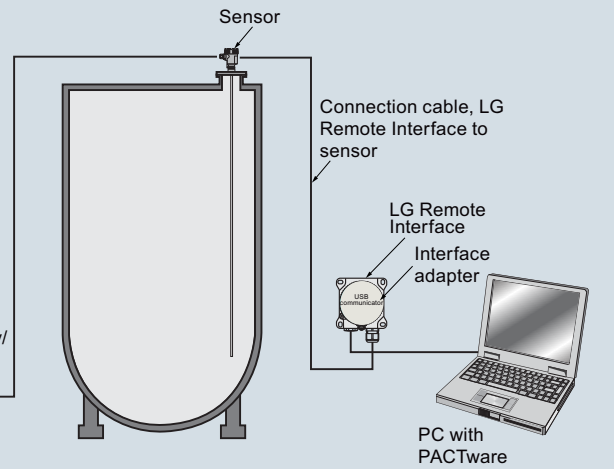
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Connection of SITRANS LG Remote Interface to the sensor



Connection of LG Remote Interface to the sensor and the PC



SITRANS LG Remote Interface installation

4

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Technical specifications

| | | | |
|--|---|---|--|
| Mode of operation | | Medium conditions | |
| Measuring principle | Guided wave radar measurement | Dielectric constant | $dK \geq 1.4$ (configuration dependent) Note: for measurement below 1.4 use probe end tracking. |
| Measuring range | 300 ... 75 000 mm (11.81 ... 2 952.75 inch) | Process temperature range | -196 ... +450 °C (-321 ... +842 °F) |
| Output | | Vessel pressure | -1 ... +400 bar (-100 ... +40 000 kPa) |
| mA analog output with HART digital signal | 4 ... 20 mA/HART (SIL optional) | Design | |
| Output range | Current: minimum 3.8 mA, maximum 20.5 mA ≤ 10 mA for 5 ms after switching on, ≤ 3.6 mA | Instrument weight (dependent on process fitting) - see manual for further details | Approx. 0.8 ... 8 kg (0.176 ... 17.64 lb) |
| • Analog | | Materials | <ul style="list-style-type: none"> • Plastic housing plastic PBT (Polyester) • Aluminum die-casting housing, aluminum die-casting AISi10 mg, powder-coated- basis: polyester • Stainless steel housing, precision casting 316L • Stainless steel housing, electropolished 316L |
| • Start-up current | Diagnostic alarm | • Enclosure | |
| Diagnostic alarm | Failure signal current output (adjustable): last valid measured value, ≥ 21 mA, ≤ 3.6 mA | • Degree of protection | 2x M20 x 1.5 or 2 x ½" NPT |
| Digital communication | HART Version 7 x and multidrop compatible | • Cable inlet | Process connections |
| Modbus | Modbus RTU, Modbus ASCII | • Pipe thread, cylindrical (ISO 228 T1) | G¾" A, G1" A, G1½" A according to DIN 3852-A |
| PROFIBUS PA | PROFIBUS PA profile 3.02 | • American pipe thread, conical (ASME B1.20.1) | ¾" NPT, 1" NPT, 1½" NPT |
| FOUNDATION Fieldbus | FOUNDATION Fieldbus protocol Physical layer according to IEC 61158-2 | • Flanged | DIN from DN 25, ANSI from 1" |
| Performance | | • Hygienic | Hygienic fittings |
| Process reference conditions according to DIN EN 61298-1 | | Programming | |
| Non-linearity | See manual for more details | Local | Four button, menu-driven data entry |
| • Coaxial | | Resolution and repeatability | Handheld communicator |
| • Single rod probes | Accuracy +/- 2 mm (0.08 inch) | PC | SIMATIC PDM, AMS, PACTware |
| • Interface models | +/- 2 mm (0.08 inch) +/- 5 mm (0.197 inch) Note: Typical deviation, Interface measurement. See manual for full explanation. | Power | |
| Resolution and repeatability | | Accuracy +/- 2 mm (0.08 inch) | 2-wire Hart version |
| Accuracy | Note: Typical deviation, Interface measurement. See manual for full explanation. | 4-wire versions | 9.6 ... 48 V DC, 20 ... 42 V AC, 50/60 Hz, and 90 ... 253 V AC, 50/60 Hz |
| • Coaxial/rod/cable probes | | Electromagnetic compatibility (check if needed) | Modbus |
| • Interface models | The measurement error from the process conditions is in the specified pressure and temperature range of below 1 % | PROFIBUS PA | 9 ... 32 V DC |
| Electromagnetic compatibility (check if needed) | | Rated operating conditions | FOUNDATION Fieldbus |
| • Measuring cycle time | -40 ... +80 °C (-40 ... +176 °F) LCD readable temperature range | Note: see manual for specific power based on ordered options | |
| • Step response time | | Ambient temperature for enclosure | -40 ... +80 °C (-40 ... +176 °F) with display heated option |
| • Temperature Effects | Location | Certificates and approvals | |
| | Indoor/outdoor | Hazardous approvals: | ATEX, FM, CSA, IECEx Note: other regional approvals are available |
| | Installation category | Hygienic approvals: | EHEDG |
| | II | Overfill protection | WHG, Vlarem |
| | Pollution degree | Ship approval | ABS, CCS, GL, BV, LR |
| | 2 | | |
| | Relative Humidity | | |
| | 20 ... 85 % | | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| | SITRANS LG240 | SITRANS LG250 | SITRANS LG260 | SITRANS LG270 |
|-------------------|--|--|--|--|
| Industries | Food, Beverage and Pharmaceutical | Chemical/HPI/Power/General | Cement, power generation, food, processing, mineral processing, mining | Chemical/HPI/Power/General |
| Applications | Hygienic and corrosive applications | Liquids, storage and process vessels with agitators, vaporous liquids, interface | Cement, fly ash, grain, coal, flour, plastics | Aggressive applications in liquids, storage and process vessels with agitators, vaporous liquids, high temperatures and pressures, low dielectric media |
| Range | 32 m | 75 m | 60 m | 60 m |
| Performance | +/- 2 mm | +/- 2 mm | +/- 2 mm | +/- 2 mm |
| Temperature | -40 ... +150 °C (-40 ... +302 °F) | -40 ... +200 °C (-40 ... +392 °F) | -40 ... +200 °C (-40 ... +392 °F) | -196 ... +450 °C (-320.8 ... +842 °F) |
| Communications | <ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare | <ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare | <ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare | <ul style="list-style-type: none"> • 4 ... 20 mA/HART • Modbus: Modbus RTU, Modbus ASCII • PROFIBUS PA • FOUNDATION Fieldbus • SIMATIC PDM • DTM/FDT for PACTware • Fieldcare |

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|--|-----------------|-----------|--|-----------------|-----------|
| SITRANS LG240 | 7ML5880- | | SITRANS LG240 | 7ML5880- | |
| Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids. | | | Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids. | | |
| ➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal. | | | | | |
| Approvals | | | Process fitting/Material | | |
| Ordinary location CE ⁹⁾ | 0 A | | Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/1.4435 (BN2) ⁴⁾ | 0 0 | |
| Overflow protection (WHG; VLAREM) ²⁸⁾ | 0 C | | Clamp 2" PN 16 (ø 64 mm) DIN 32676, ISO2852/PTFE-TFM 1600 | 0 1 | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁹⁾ | 0 E | | Clamp 2 1/2" PN 10 (ø 77.5 mm) DIN 32676, ISO2852/1.4435 (BN2) ⁴⁾ | 0 2 | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC + Overflow (WHG;VLAREM) ⁹⁾²⁸⁾ | 0 F | | Clamp 2 1/2" PN 10 (ø 77.5 mm) DIN 32676, ISO2852/PTFE-TFM 1600 | 0 3 | |
| ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ¹⁵⁾²⁴⁾²⁶⁾²⁷⁾ | 0 H | | Clamp 3" PN 10 (ø 91 mm) D N 32676, ISO2852/1.4435 (BN2) ⁴⁾ | 0 4 | |
| ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁾¹²⁾²⁷⁾ | 0 J | | Clamp 3" PN 10 (ø 91 mm) DIN 32676, ISO2852/PTFE-TFM 1600 | 0 5 | |
| ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ¹⁾¹²⁾¹⁵⁾²⁴⁾²⁷⁾ | 0 K | | Clamp 4" PN 6 (ø 119 mm) DIN 32676, ISO2852/1.4435(BN2) ⁴⁾ | 0 6 | |
| ATEX II 1D, 1/2D, 2D IP6x T ¹⁵⁾²⁴⁾²⁶⁾²⁷⁾ | 0 N | | Clamp 4" PN 6 (ø 119 mm) DIN 32676, ISO2852/PTFE-TFM 1600 | 0 7 | |
| IEC Ex ia IIC T6 ⁹⁾ | 0 P | | Bolting DN 32, PN 40 DIN 11851/1.4435(BN2) ⁴⁾ | 0 8 | |
| IEC Ex ia IIC T6 + IEC IP6x T tD ¹⁵⁾²⁴⁾²⁶⁾²⁷⁾ | 0 Q | | Bolting DN 32, PN 40 DIN 11851/PTFE-TFM 1600 | 1 0 | |
| IEC Ex d ia IIC T6 ¹⁾¹²⁾²⁷⁾ | 0 R | | Bolting DN 40, PN 40 DIN 11851/1.4435 (BN2) ⁴⁾ | 1 1 | |
| IEC Ex d ia IIC T6 + IEC IP6x T tD ¹⁾¹²⁾¹⁵⁾²⁴⁾²⁷⁾ | 0 S | | Bolting DN 40, PN 40 DIN 11851/PTFE-TFM 1600 | 1 2 | |
| FM (NI) Class I, Div. 2, Groups A, B, C, D | 1 A | | Bolting DN 40, PN 40 DIN 11851/PTFE-TFM 1600 | 1 3 | |
| FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G | 1 B | | Bolting DN 50, PN 25 DIN 11851/1.4435(BN2) ⁴⁾ | 1 4 | |
| FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹²⁾ | 1 C | | Bolting DN 50, PN 25 DIN 11851/PTFE-TFM 1600 | 1 5 | |
| CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ⁹⁾¹⁵⁾²⁶⁾²⁷⁾²⁹⁾ | 1 E | | Flange DN 25, PN 40 Form C, DIN 2501/PTFE-TFM 1600 | 2 0 | |
| CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁹⁾ | 1 F | | Flange DN 40, PN 40 Form C, DIN 2501/PTFE-TFM 1600 | 2 1 | |
| CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹²⁾ | 1 G | | Flange DN 50, PN 40 Form C, DIN 2501/PTFE-TFM 1600 | 2 2 | |
| NEPSI Ex ia IIC T6 ⁹⁾ | 2 A | | Flange DN 50, PN 40 Form V13, DIN 2513/PTFE-TFM 1600 | 2 3 | |
| NEPSI Ex ia IIC T6 + DIP A20/21 TA T* | 2 B | | Flange DN 65, PN 40 Form C, DIN 2513/PTFE-TFM 1600 | 2 4 | |
| NERSI Ex d ia IIC T6 | 2 C | | Flange DN 80, PN 40 Form C, DIN 2501/PTFE-TFM 1600 | 2 5 | |
| NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* | 2 D | | Flange DN 100, PN 16 Form C, DIN 2501/PTFE-TFM 1600 | 2 6 | |
| NEPSI Ex d IIC T6 | 2 E | | Flange DN 80, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600 | 2 7 | |
| NEPSI Ex d IIC T6 + DIP A20/21 TA T* | 2 F | | Flange DN 100, PN 40 EN 1092-1 Form B1/PTFE-TFM 1600 | 2 8 | |
| NEPSI DIP A20/21 TA T* | 2 G | | Flange 2" 150 lb RF, ANSI B16.5/PTFE-TFM 1600 | 3 0 | |
| INMETRO Ex ia IIC T6 ... T1 ⁹⁾ | 3 A | | Flange 2" 300 lb RF, ANSI B16.5/PTFE-TFM 1600 | 3 1 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb | 3 B | | Flange 3" 150 lb RF, ANSI B16.5/PTFE-TFM 1600 | 3 2 | |
| INMETRO Ex d ia IIC T6 ... T1 | 3 C | | Flange 4" 150 lb RF, ANSI B16.5/PTFE-TFM 1600 | 3 3 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb | 3 D | | Note: The pressure limit for all PTFE coated versions is 16 bar (per manual). | | |
| INMETRO Ex d IIC T6 ... T1 | 3 E | | | | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb | 3 F | | | | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db | 3 G | | | | |
| Probe version/Material | | | | | |
| Probe cable ø 4 mm (0.16 inch) with gravity weight/PFA ²⁾⁷⁾ | A | | | | |
| Probe exchangeable rod (ø 8 mm) / 1.4435 (BN2), can be autoclaved (Ra < 0.76 µm) ³⁾⁷⁾ | B | | | | |
| Probe exchangeable rod (ø 8 mm) / 1.4435 (BN2), (Ra < 0.76 µm) ³⁾⁷⁾ | C | | | | |
| Probe rod ø 10 mm (0.39 inch)/PFA ²⁾⁷⁾ | D | | | | |
| Probe exchangeable rod (ø 8 mm) /1.4435 (BN2), electropolished (Ra < 0.38 µm) ⁷⁾ | E | | | | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|---|-----------------|-----------|--|-----------------|-----------|
| SITRANS LG240 | 7ML5880- | | SITRANS LG240 | 7ML5880- | |
| Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids. | | | Guided Wave Radar sensor for Hygienic and corrosive continuous level and interface measurement of liquids. | | |
| Electronics | | | Lengths | | |
| Two-wire 4 ... 20mA/HART | | 0 | <u>Rod ø 8 mm (0.31 inch)/1.4435 (Basle standard 300 ... 4 000 mm)</u> | | |
| Four-wire Modbus ¹⁹⁾²⁰⁾²¹⁾²²⁾ | | 1 | 300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾ | 0 | |
| Two-wire 4 ... 20mA/HART with SIL qualification ¹⁸⁾ | | 2 | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁴⁾ | 1 | |
| Four-wire 4 ... 20mA/HART; 90 ... 253V AC; 50/60 Hz ¹⁾⁸⁾¹⁰⁾ | | 3 | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾ | 2 | |
| Four-wire 4 ... 20mA/HART; 9.6 ... 48V DC; 20 ... 42 V AC ¹⁾⁸⁾¹⁰⁾ | | 4 | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾ | 3 | |
| PROFIBUS PA ²⁵⁾ | | 5 | <u>Rod ø 10 mm (0.24 inch)/PFA (300 ... 4 000 mm)</u> | | |
| FOUNDATION Fieldbus | | 6 | 300 mm (11.81 inch) ¹⁴⁾ | 9 R 1 A | |
| Seal/Process temperature | | | 500 mm (19.69 inch) ¹⁴⁾ | 9 R 1 B | |
| Without glass seal/-40 ... +150 °C (-40 ... +302 °F) ⁵⁾¹¹⁾ | A | | 300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾ | 9 R 1 C | |
| FFKM (Kalrez 6221)/-20 ... 150 °C (-4 ... +302 °F) | B | | 1 001 ... 5 000 mm (39.41 ... 78.74 inch) ¹⁴⁾ | 9 R 1 D | |
| EPDM (Freudenberg 70 EPDM 291)/-20 ... 130 °C (-4 ... +266 °F) | C | | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾ | 9 R 1 E | |
| Housing/Protection/Cable | | | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾ | 9 R 1 F | |
| Plastic IP66/IP67 M20 x 1.5/blind stopper | A | | <u>Cable ø 4 mm (0.16 inch)/PFA (500 ... 32 000 mm)</u> | | |
| Plastic IP66/IP67 1/2" NPT/blind stopper | B | | 500 mm (9.69 inch) | 9 R 1 G | |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ blind stopper | C | | 501 ... 1 000 mm (19.72 ... 39.37 inch) | 9 R 1 H | |
| Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | D | | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) | 9 R 1 J | |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | E | | 2 001 ... 4 000 mm (78.78 ... 157.40 inch) | 9 R 1 K | |
| Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | F | | 4 001 ... 5 000 mm (157.52 ... 196.85 inch) | 9 R 1 L | |
| Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | G | | 5 001 ... 10 000 mm (196.89 ... 393.70 inch) | 9 R 1 M | |
| Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | H | | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | 9 R 1 N | |
| Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | J | | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | 9 R 1 P | |
| Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | K | | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | 9 R 1 Q | |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | L | | 25 001 ... 32 000 mm (984.29 ... 1 259.52 inch) | 9 R 1 R | |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | M | | <u>Exchange rod ø 8 mm (0.31 inch)/1.4435 (BN2), electropolished (Ra < 0.38 µm)</u> | | |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland stainless steel | N | | 300 ... 1 000 mm (11.81 ... 39.37 inch) ¹⁴⁾ | 9 R 2 A | |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | P | | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ¹⁴⁾ | 9 R 2 B | |
| Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | Q | | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ¹⁴⁾ | 9 R 2 C | |
| Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | R | | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ¹⁴⁾ | 9 R 2 D | |
| Aluminum single chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | W | | | | |
| Aluminum double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | X | | | | |
| Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland brass nickel-plated | Y | | | | |
| Stainless steel double chamber / IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | S | | | | |

| Selection and Ordering data | Order code | Selection and Ordering data | Article No. |
|---|------------|---|---------------------|
| Further designs (mandatory) | | Additional Operating Instructions | |
| Please add "-Z" to Article No. and specify Order code(s). | | German | |
| Supplementary electronics | | 4 ... 20 mA/HART - Two-wire, PFA insulated | PBD:51041000 |
| Without | A00 | 4 ... 20 mA/HART - Two-wire, Polished version | PBD:51041001 |
| Additional current output 4 ... 20 mA ¹⁾²³⁾ | A01 | 4 ... 20 mA/HART - Two-wire, Rod and cable probe, PFA insulated with SIL qualification | PBD:51041375 |
| Indicating/adjustment module | | 4 ... 20 mA/HART - Two-wire, Rod probe, Polished Version with SIL qualification | PBD:51041376 |
| Without | E00 | 4 ... 20 mA/HART - Four-wire, PFA insulated | PBD:51041002 |
| Mounted | E01 | 4 ... 20 mA/HART - Four-wire, Polished version | PBD:51041003 |
| Laterally mounted ¹⁾ | E02 | Modbus, PFA insulated | PBD:51041004 |
| Language of display | | Modbus protocol, Polished version | PBD:51041005 |
| German | L00 | PROFIBUS PA, PFA insulated | PBD:51041006 |
| English | L01 | PROFIBUS PA, Polished version | PBD:51041007 |
| French | L02 | FOUNDATION Fieldbus, PFA insulated | PBD:51041008 |
| Dutch | L03 | FOUNDATION Fieldbus, Polished | PBD:51041009 |
| Italian | L04 | Note: Operating instructions should be ordered as a separate line on the order. | |
| Spanish | L05 | All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation | |
| Portuguese | L06 | This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library. | |
| Russian | L07 | English | |
| Chinese | L08 | 4 ... 20 mA/HART - Two-wire, PFA insulated | PBD:51041037 |
| Japanese | L09 | 4 ... 20 mA/HART - Two-wire, Polished version | PBD:51041038 |
| Operating instructions | | 4 ... 20 mA/HART - Two-wire, Rod and cable probe, PFA insulated with SIL qualification | PBD:51041385 |
| German | M00 | 4 ... 20 mA/HART - Two-wire, Rod probe, Polished version with SIL qualification | PBD:51041386 |
| English | M01 | 4 ... 20 mA/HART - Four-wire, PFA insulated | PBD:51041039 |
| French | M02 | 4 ... 20 mA/HART - Four-wire, Polished version | PBD:51041040 |
| Spanish | M03 | Modbus, PFA insulated | PBD:51041041 |
| Further designs (optional) | | Modbus protocol, Polished version | PBD:51041042 |
| Please add "-Z" to Article No. and specify Order code(s). | | PROFIBUS PA, PFA insulated | PBD:51041043 |
| Enter the total insertion length in plain text description | Y01 | PROFIBUS PA, Polished version | PBD:51041044 |
| Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm | Y02 | FOUNDATION Fieldbus, PFA insulated | PBD:51041045 |
| Cleaning included certificate: oil, grease and silicone free | W01 | FOUNDATION Fieldbus, Polished version | PBD:51041046 |
| Identification label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y17 | Note: Operating instructions should be ordered as a separate line on the order. | |
| Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y18 | All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation | |
| 3.1-Inspection Certificate for instrument (EN 10204) ¹⁶⁾ | C12 | This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library. | |
| 3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹⁶⁾ | D07 | | |
| 3.1-Inspection Certificate for instrument with test data (EN 10204) ¹⁶⁾ | C25 | | |
| 2.2-Factory certificate for material (EN 10204) ¹⁶⁾ | C15 | | |
| Quality and test plan ¹⁶⁾ | C26 | | |
| Dye penetration test + 3.1 certificate/instrument ¹⁶⁾ | C13 | | |
| X-ray test + 3.1 certificate/instrument ¹⁶⁾ | C14 | | |
| Positive material identification test + 3.1 certificate/instrument ¹⁶⁾ | C16 | | |
| Roughness test + 3.1 certificate/instrument ¹⁶⁾ | C18 | | |
| Pressure test + 3.1 certificate/instrument ¹⁶⁾ | C31 | | |
| Helium leak test + 3.1 certificate/instrument ¹⁶⁾ | C32 | | |
| Ferrite measuring accuracy to DIN 32514-1 + 3.1 certificate/instrument ¹⁶⁾ | C60 | | |
| Pressure test according to Norsok + 3.1 certificate/instrument ¹⁶⁾ | C61 | | |
| 5 point calibration certificate (min. length 1 000 mm) ¹⁶⁾ | C62 | | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. |
|---|----------------------|
| Accessories | |
| SITRANS LG, GWR sensor Display Module | A5E34143449 |
| SITRANS LG, two-wire 4 ... 20 mA/HART electronic | A5E35637821 |
| SITRANS LG, USB communicator | A5E35192015 |
| SITRANS LG, Mounting eye M12 x 20 | PBD:51041448 |
| SITRANS LG, Mounting spring | PBD:51041449 |
| Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia | 7NG4124-0AA00 |
| SITRANS RD100, loop powered display - see Chapter 7 | 7ML5741-... |
| SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 | 7ML5740-... |
| SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 | 7ML5744-... |
| SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 | 7ML5750-... |
| For applicable back up point level switch - see point level measurement section | |

- 1) Available with Housing/Protection/Cable options E, F, L, M only
- 2) Available only with Process fitting/Material options 01, 03, 05, 07, 10, 12, 14 ... 33 (PTFE-TFM 1600 options)
- 3) Available only with Process Fitting/Material options 00, 02, 04, 06, 08, 11, and 13 [1.4435 (BN2) options]
- 4) Available with Length options 0, 1, 2, 3 only (Rod \varnothing 8 mm 1.4435 options)
- 5) Available with Length options R1A ... R1R only (Rod \varnothing 10 mm/PFA and Cable \varnothing 4 mm/PFA options)
- 7) Available only with the same rod or cable diameter in Length options
- 8) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01
- 9) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0P, 1E, 1F, 2A, and 3A
- 10) Available with Approval options 0A, 0J, 0K, 0N, 0R, 0S, 1A, 1C, 1E, 1G, 2C, 2D, 2G, 3C, 3D, 3G
- 12) Available with Indicating/adjustment module options E00 and E01
- 14) Not available with Y02
- 15) Available with Housing/Protection options C, D, E, F, G, H, L, M
- 16) Listed Certificates are not available with all configurations, please contact factory for more information
- 18) Available with Supplementary electronic option A00, SIL electronics
- 19) Only available with Approval options 0A, 0J, 0K, 0R, 0S, 1A, 1C, 1E, and 1G
- 20) Available with housings/protection/cable options E, F, L, M, and P
- 21) Available with supplementary electronic option A00
- 22) Available with Indicating/adjustment module options E00, E01
- 23) Not available with Indicating/adjustment module option E02
- 24) Available with Housing/protection options D, F, H, M, X, and S
- 25) Not available with supplementary electronic option A01
- 26) Available with Housing/protection options W and Y
- 27) Available with Housing/protection options X and S
- 28) Available with Electronics options 0, 2, and 5
- 29) Not available with Housing options A and B

Note: Please consult manual for further details.

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|---|-----------------|-----------|--|-----------------|-----------|
| SITRANS LG250 | 7ML5881- | | SITRANS LG250 | 7ML5881- | |
| A guided wave radar sensor for continuous level and interface measurement of liquids. | | | A guided wave radar sensor for continuous level and interface measurement of liquids. | | |
| ➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal. | | | | | |
| Approvals | | | Probe version/Material | | |
| Ordinary location CE ¹⁶ 50) | 0 A | | Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316L ⁸ 9)11)26) | A | |
| Shipping approval ¹⁹ 28)29) | 0 B | | Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L ⁸ 9)12)26) | B | |
| Overfill protection (WHG; VLAREM) ⁴⁶ 50) | 0 C | | Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L ⁸ 9)11)26) | C | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ¹⁶ 50) | 0 E | | Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L ⁸ 9)12)26) | D | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ¹⁶ 46)50) | 0 F | | Probe exchangeable rod ø 8 mm (0.31 inch)/316L ² 8)10)11)26) | E | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ¹⁹ 28)29) | 0 G | | Probe exchangeable rod ø 12 mm (0.47 inch)/316L ³ 8)10)11)26) | F | |
| ATEX II 1G, 1/2G 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ²³ 40)44)45) | 0 H | | Probe coax version ø 21.3 mm (0.84 inch) with single hole/316L ⁸ 9)11)26)27) | G | |
| ATEX II 1/2G, 2G Ex d ia IIC T6 ¹ 21)23)45) | 0 J | | Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/316L ⁸ 9)11)26)27) | H | |
| ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ¹ 21)23)40)45) | 0 K | | Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L ⁵ 8)9)11)26)27) | K | |
| ATEX II 1/2G, 2G Ex d IIC T6 ¹⁴ 20) | 0 L | | Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/ Alloy C22 (2.4602) ⁸ | L | |
| ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ¹⁴ 20)23)40)44) | 0 M | | Probe exchangeable cable ø 4 mm (0.16 inch) with centre weight/ Alloy C22 (2.4602) ⁸ | M | |
| ATEX II 1D, 1/2D, 2D IP6x T ²⁰ 23)40)44)45) | 0 N | | Probe exchangeable rod ø 8 mm (0.31 inch)/ Alloy C22 (2.4602) ⁸ | N | |
| IEC Ex ia IIC T6 ¹⁶ 50) | 0 P | | Probe exchangeable rod ø 12 mm (0.47 inch)/Alloy C22 (2.4602) ⁸ | P | |
| IEC Ex ia IIC T6 + IEC IP6x T d ²⁰ 23)40)44)45) | 0 Q | | Probe coax version ø 21.3 mm (0.84 inch) with multiple hole/Alloy C22 (2.4602) ⁸ | Q | |
| IEC Ex d ia IIC T6 ¹ 21)23)40)45) | 0 R | | Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602) ⁸ | R | |
| IEC Ex d ia IIC T6 + IEC IP6x T d ¹ 20)21)40)44)45) | 0 S | | Probe exchangeable rod ø 8 mm (0.31 inch)/ Duplex (1.4462) ⁸ | S | |
| IEC Ex d IIC T6 ¹⁴ 20) | 0 T | | Exchangeable rod ø 12 mm (0.47 inch)/ Alloy 400 (2.4360) ⁸ | T | |
| IEC Ex d IIC T6 + IEC IP6x T d ¹⁴ 20)23)40)44) | 0 U | | | | |
| FM (NI) Class I, Div. 2 Groups A, B, C, D ²⁰ 51) | 1 A | | Process fitting/Material | | |
| FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F | 1 B | | Thread G 3/4" (DIN 3852-A) PN 6/316L | 0 0 | |
| FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹ 21)23) | 1 C | | Thread 3/4" NPT (ASME B1.20.1) PN 6/316L | 0 1 | |
| FM (XP) Class I, Div. 1, Groups A, B, C, D ²⁰ | 1 D | | Thread G 3/4" (DIN 3852-A) PN 40/316L | 0 2 | |
| CSA (NI) Class I, Div. 2, Groups A, B, C, D (DIP) Class II, III, Div. 1, Groups E, F, G ¹⁶ 44)45)51) | 1 E | | Thread 3/4" NPT (ASME B1.20.1) PN 40/316L | 0 3 | |
| CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁶ 50) | 1 F | | Thread G 3/4" (DIN 3852-A) PN 100 / 316L ⁴² | 0 4 | |
| CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹ 21)23) | 1 G | | Thread 3/4" NPT (ASME B1.20.1) PN 100/ 316L ⁴² | 0 5 | |
| CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁴ 20) | 1 H | | Thread G 1" (DIN 3852-A) PN 40/316L | 0 6 | |
| NEPSI Ex ia IIC T6 ¹⁶ 46) | 2 A | | Thread 1" NPT (ASME B1.20.1) PN 40/316L | 0 7 | |
| NEPSI Ex ia IIC T6 + DIP A20/21 TA T ^{*43} | 2 B | | Thread G 1" (DIN 3852-A) PN 100/316L ⁴² | 0 8 | |
| NEPSI Ex d ia IIC T6 ⁴³ 47) | 2 C | | Thread 1" NPT (ASME B1.20.1) PN 100/316L ⁴² | 1 0 | |
| NEPSI Ex d ia IIC T6 + DIP A20/21 TA T ^{*43} 47) | 2 D | | Thread G 1 1/2" (DIN 3852-A) PN 40/316L | 1 1 | |
| NEPSI Ex d IIC T6 ⁴³ | 2 E | | Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L | 1 2 | |
| NEPSI Ex d IIC T6 + DIP A20/21 TA T ^{*43} | 2 F | | Thread G1 1/2" (DIN 3852-A) PN 100/316L ⁴² | 1 3 | |
| NEPSI DIP A20/21 TA T ^{*43} 48) | 2 G | | Thread 1 1/2" NPT (ASME B1.20.1) PN 100/ 316L ⁴² | 1 4 | |
| INMETRO Ex ia IIC T6 ... T1 ¹⁶ 46) | 3 A | | Thread 2 NPT PN 40, ASME B1.20.1/316L ³⁷ 38) | 1 5 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb ⁴³ | 3 B | | Flange DN 25 PN 40 Form C, DIN 2501/316L | 2 0 | |
| INMETRO Ex d ia IIC T6 ... T1 ⁴³ 47) | 3 C | | Flange DN 25 PN 40 Form F, DIN 2501/316L | 2 1 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb ⁴³ 47) | 3 D | | Flange DN 40 PN 40 Form C, DIN 2501/316L | 2 2 | |
| INMETRO Ex d IIC T6 ... T1 ⁴³ 46) | 3 E | | Flange DN 50 PN 40 Form C, DIN 2501/316L | 2 3 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ⁴³ | 3 F | | Flange DN 50 PN 40 form V13, DIN 2513/316L | 2 4 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db ⁴³ 48) | 3 G | | Flange DN 80 PN 40 Form C, DIN 2501/316L | 2 5 | |
| KOSHA Ex d IIC T6 ... T1 – KE | 4 A | | Flange DN 80 PN 40 Form V13, DIN 2501/316L | 2 6 | |
| | | | Flange DN 100 PN 16 Form C, DIN 2501/316L | 2 7 | |
| | | | Flange DN 100 PN 16 Form C, DIN 2501/ 316L | 2 8 | |
| | | | Flange DN 100 PN 40 Form C, DIN 2501 /316L | 3 0 | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|---|-----------------|-----------|---|-----------------|-----------|
| SITRANS LG250 | 7ML5881- | | SITRANS LG250 | 7ML5881- | |
| A guided wave radar sensor for continuous level and interface measurement of liquids. | | | A guided wave radar sensor for continuous level and interface measurement of liquids. | | |
| Flange DN 100 PN 40 Form V13, DIN 2513/316L | 3 1 | | Flange 4" 150 lb RF, ANSI B16.5/Duplex (1.4462) | 7 6 | |
| Flange DN 150 PN 16 Form C, DIN 2501/316L | 3 2 | | Flange 4" 150 lb FF, ANSI B16.5/Duplex (1.4462) | 7 7 | |
| Flange DN 50 PN 40 EN 1092-1 Form B1/316L | 3 3 | | Flange 4" 300 lb RF, ASME B16.5/Duplex (1.4462) | 7 8 | |
| Flange DN 80 PN 40 EN 1092-1 Form B1/316L | 3 4 | | Flange 4" 600 lb RF, ASME B16.5/Duplex (1.4462) | 8 0 | |
| Flange 1" 150 lb RF, ANSI B16.5/316L | 3 5 | | Thread 1 1/2" NPT PN 40, ASME B1.20.1/Alloy 400 (2.4360) | 8 1 | |
| Flange 1 1/2" 150 lb RF, ANSI B16.5/316L | 3 6 | | Flange 2" 150 lb RF, ASME B16.5/Alloy 400 (2.4360) | 8 2 | |
| Flange 2" 150 lb RF, ANSI B16.5/316L | 3 7 | | Flange 2" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) solid | 8 3 | |
| Flange 2" 300 lb RF, ANSI B16.5/316L | 3 8 | | Flange 3" 150 lb RF, ASME B16.5/Alloy 400 (2.4360) | 8 4 | |
| Flange 3" 150 lb RF, ANSI B16.5/316L | 4 0 | | Flange 3" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) | 8 5 | |
| Flange 3" 300 lb RF, ANSI B16.5/316L | 4 1 | | Flange 3" 300 lb RJF, ASME B16.5/Alloy 400 (2.4360) | 8 6 | |
| Flange 4" 150 lb RF, ANSI B16.5/316L | 4 2 | | Flange 4" 150 lb RF, ASME B16.5/Alloy 400 (2.4360) | 8 7 | |
| Flange 4" 300 lb RF, ANSI B16.5/316L | 4 3 | | Flange 4" 300 lb RF, ASME B16.5/Alloy 400 (2.4360) | 8 8 | |
| Flange 6" 150 lb RF, ANSI B16.5/316L | 4 4 | | Flange DN 25 PN 40 Form C, DIN 2501/Alloy C22 (2.4602) solid | 9 0 | L 1 A |
| Flange 6" 300 lb RF, ANSI B16.5/316L | 4 5 | | Flange DN 25 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) solid | 9 0 | L 1 B |
| Thread G 3/4" PN 40, DIN 3852-A / Alloy C22 (2.4602) | 4 6 | | Flange DN 80 PN 40 Form B1, EN 1092-1/Alloy C22 (2.4602) solid | 9 0 | L 1 C |
| Thread G 1" PN 40, DIN 3852-A/ Alloy C22 (2.4602) | 4 7 | | Flange 1" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 D |
| Thread G 1 1/2" PN 40, DIN 3852-A/ Alloy C22 (2.4602) | 4 8 | | Flange 1 1/2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 E |
| Thread 1 1/2" NPT PN 40, ASME B1.20.1/ Alloy C22 (2.4602) | 5 0 | | Flange 1 1/2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 F |
| Flange DN 50 PN 40 Form C, DIN 2501/ 316L with Alloy C22 (2.4602) coating | 5 1 | | Flange 2" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 G |
| Flange DN 50 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating | 5 2 | | Flange 2" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 H |
| Flange DN 80 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating | 5 3 | | Flange 2" 600 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 J |
| Flange DN 100 PN 40 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating | 5 4 | | Flange 2" 1 500 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 K |
| Flange DN 150 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating | 5 5 | | Flange 3" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 L |
| Flange DN 200 PN 16 Form B1, EN 1092-1/ 316L with Alloy C22 (2.4602) coating | 5 6 | | Flange 3" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 M |
| Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 5 7 | | Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 9 0 | L 1 N |
| Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 5 8 | | Flange 4" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 P |
| Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 6 0 | | Flange 4" 150 lb FF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 Q |
| Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 6 1 | | Flange 4" 300 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 R |
| Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 6 2 | | Flange 4" 300 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 S |
| Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 6 3 | | Flange 4" 300 lb LT, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 T |
| Flange 6" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 6 4 | | Flange 4" 600 lb RJF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 U |
| Thread G 3/4" (DIN 3852-A) PN 40/Duplex 1.4462 | 6 5 | | Flange 6" 150 lb RF, ASME B16.5/Alloy C22 (2.4602) solid | 9 0 | L 1 V |
| Flange DN 80 PN 40 Form F, DIN 2501/Duplex (1.4462) | 6 6 | | Flange 2 1/2" 600 lb RF, Masoneilan/Alloy C22 (2.4602) solid | 9 0 | L 1 W |
| Flange DN 50 PN 40 Form B1, EN 1092-1/ Duplex (1.4462) | 6 7 | | | | |
| Flange 1" 150 lb RF, ASME B16.5/Duplex (1.4462) | 6 8 | | | | |
| Flange 1 1/2" 150 lb RF, ASME B16.5/Duplex (1.4462) | 7 0 | | | | |
| Flange 2" 150 lb RF, ASME B16.5/Duplex (1.4462) | 7 1 | | | | |
| Flange 2" 300 lb RF, ASME B16.5/Duplex (1.4462) | 7 2 | | | | |
| Flange 2" 600 lb RF, ASME B16.5/Duplex (1.4462) | 7 3 | | | | |
| Flange 3" 150 lb RF, ASME B16.5/Duplex (1.4462) | 7 4 | | | | |
| Flange 3" 300 lb RF, ASME B16.5/Duplex (1.4462) | 7 5 | | | | |

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|--|-----------------|-----------|--|-----------------|-----------|
| SITRANS LG250 | 7ML5881- | | SITRANS LG250 | 7ML5881- | |
| A guided wave radar sensor for continuous level and interface measurement of liquids. | | | A guided wave radar sensor for continuous level and interface measurement of liquids. | | |
| Electronics | | | | | |
| Two-wire 4 ... 20mA/HART | | 0 | Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper | | P |
| Four-wire Modbus ³³⁾³⁵⁾³⁶⁾⁴⁹⁾ | | 1 | Stainless Steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper | | Q |
| Two-wire 4 ... 20mA/HART with SIL qualification ²⁴⁾³²⁾ | | 2 | Stainless Steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper | | R |
| Four-wire 4 ... 20mA/HART; 90 ... 253 V AC; 50/60Hz ¹⁾¹⁵⁾¹⁷⁾⁴⁹⁾ | | 3 | Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland stainless steel | | S |
| Four-wire 4 ... 20mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹⁾¹⁵⁾¹⁷⁾⁴⁹⁾ | | 4 | Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel | | T |
| PROFIBUS PA ⁴³⁾⁴⁹⁾ | | 5 | Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel | | U |
| FOUNDATION Fieldbus ⁴⁹⁾ | | 6 | Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland stainless steel | | V |
| Seal/Second line of defense/ Process temperature | | | Stainless Steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated | | W |
| FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁶⁾ | | A | Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/Cable gland brass nickel-plated | | X |
| FKM (SHS FPM 70C3 GLT)/without glass seal/-40 ... +150 °C (-40 ... +302 °F) | | B | Stainless steel single chamber (precision casting)/IP66/ IP68 (0.2 bar) M20 x 1.5/ Cable gland brass nickel-plated | | Y |
| FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) | | C | Stainless steel double chamber / IP66/ IP68 (0.2 bar) M20 x 1.5 / Cable gland brass nickel-plated | | J |
| EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) | | D | Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Plug connector Harting HAN 7D (straight) | | Z Q 1 A |
| EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) | | E | Aluminum single chamber/IP66/IP68 (0.2 bar) with M20 x 1.5/Special HARTING plug (bent) according to Tier One (SKXXX) | | Z Q 1 B |
| 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 | Lengths | | |
| EPDM (A+P 75.5/KW75F)/without glass seal/-40 ... +150 °C (-40 ... +302 °F) | | H | <u>Rod ø 8 mm/316L</u> | | |
| EPDM (A+P 75.5/KW75F)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) | | J | 300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾ | | 0 |
| Silicone FEP coated (A+P FEP-O-SEAL)/without glass seal/-40 ... +80 °C (-40 ... +176 °F) ⁶⁾ | | K | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾ | | 1 |
| Silicone FEP coated (A+P FEP-O-SEAL)/without glass seal/-40 ... +150 °C (-40 ... +302 °F) | | L | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾ | | 2 |
| Silicone FEP coated (A+P FEP-O-SEAL)/with glass seal/-40 ... +150 °C (-40 ... +302 °F) | | M | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾ | | 3 |
| With borosilicate glass lead through/ with glass seal/-60 ... +150 °C (-76 ... +302 °F) | | N | 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾ | | 4 |
| FFKM (Kalrez 6375)/without glass seal/-20 ... +200 °C (-4 ... +392 °F) | | P | 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾ | | 5 |
| FKM (SHS FPM 70C3 GLT)/with glass seal/-40 ... 80 °C (-40 ... +176 °F) ⁶⁾ | | Q | <u>Rod ø 8 mm/Duplex</u> | | |
| | | | 300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾ | | 9 R 1 A |
| Housing/Protection/Cable | | | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾ | | 9 R 1 B |
| Plastic IP66/IP67 M20 x 1.5/blind stopper | | A | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾ | | 9 R 1 C |
| Plastic IP66/IP67 1/2" NPT/blind stopper | | B | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾ | | 9 R 1 D |
| Plastic 2-chamber/IP66/IP67/M20 x 1.5/blind stopper | | G | 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾ | | 9 R 1 E |
| Plastic 2-chamber/IP66/IP67 /1/2" NPT/blind stopper | | H | 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾ | | 9 R 1 F |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ Blind stopper | | C | <u>Rod ø 8 mm or ø 12 mm / C22</u> | | |
| Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper | | D | 300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾ | | 9 R 1 J |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5 / Blind stopper | | E | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾ | | 9 R 1 K |
| Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper | | F | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾ | | 9 R 1 L |
| Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper | | L | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾ | | 9 R 1 M |
| Stainless Steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/Blind stopper | | M | 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ²²⁾ | | 9 R 1 N |
| Stainless Steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/Blind stopper | | N | 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ²²⁾ | | 9 R 1 P |
| | | | <u>Rod ø 12 mm/316L</u> | | |
| | | | 300 ... 1 000 mm (11.81 ... 39.37 inch) ²²⁾ | | 9 R 2 A |
| | | | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ²²⁾ | | 9 R 2 B |
| | | | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ²²⁾ | | 9 R 2 C |
| | | | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ²²⁾ | | 9 R 2 D |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

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

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Order code | Selection and Ordering data | Order code |
|--|------------|---|------------|
| Further designs (mandatory) | | Further designs (optional) | |
| Please add "-Z" to Article No. and specify Order code(s). | | Please add "-Z" to Article No. and specify Order code(s). | |
| Supplementary electronics | | Enter the total insertion length in plain text description | |
| Without | A00 | | Y01 |
| Additional current output 4 ... 20 mA ¹⁾³⁹⁾ | A01 | Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm | Y02 |
| Dimensions centering weight (diameter/height) | | Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | |
| Without | B00 | | Y17 |
| ø 40/30 mm | B01 | Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y18 |
| ø 45/30 mm (for 2 inch tubes) | B02 | 3.1-Inspection Certificate for instrument (EN 10204) ³⁰⁾ | C12 |
| ø 75/30 mm (for 3 inch tubes) | B03 | 3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ³⁰⁾ | D07 |
| ø 95/30 mm (for 4 inch tubes) | B04 | 3.1-Inspection Certificate for instrument with test data (EN 10204) ³⁰⁾ | C25 |
| ø 40 mm/30 mm | B05 | 2.2-Factory certificate for material (EN 10204) ³⁰⁾ | C15 |
| ø 1.57/1.18 inch (for 2 inch Schedule 160) | B06 | Quality and test plan ³⁰⁾ | C26 |
| ø 45 mm/30 mm (for 2 inch tubes) | B07 | Dye penetration test + 3.1 certificate/instrument ³⁰⁾ | C13 |
| ø 1.77/1.18 inch (for 2 inch Schedule 40/80) | B08 | X-ray test + 3.1 certificate/instrument ³⁰⁾ | C14 |
| ø 75 mm/30 mm (for 3 inch tubes) | | Positive material identification test + 3.1 certificate/instrument ³⁰⁾ | C16 |
| ø 2.95/1.18 inch (for 3 inch Schedule 10/40) | | Roughness test + 3.1 certificate/instrument ³⁰⁾ | C18 |
| ø 95 mm/30 mm (for 4 inch tubes) | | Pressure test + 3.1 certificate/instrument ³⁰⁾ | C31 |
| ø 3.74/1.18 inch (for 4 inch Schedule 80) | | Helium leak test + 3.1 certificate/instrument ³⁰⁾ | C32 |
| Rod mounted | | Pressure test according to Norsok + 3.1 certificate/instrument ³⁰⁾ | |
| Without Rod, applicable for coax or cable probe types only | C00 | 5 point calibration certificate (min. length 1 000 mm) ³⁰⁾⁴¹⁾ | C62 |
| Mounted | C01 | | |
| Not mounted | C02 | | |
| Indicating/adjustment module | | | |
| Without | E00 | | |
| Mounted | E01 | | |
| Laterally mounted ¹⁾ | E02 | | |
| Language of display | | | |
| German | L00 | | |
| English | L01 | | |
| French | L02 | | |
| Dutch | L03 | | |
| Italian | L04 | | |
| Spanish | L05 | | |
| Portuguese | L06 | | |
| Russian | L07 | | |
| Chinese | L08 | | |
| Japanese | L09 | | |
| Operating instructions | | | |
| German | M00 | | |
| English | M01 | | |
| French | M02 | | |
| Spanish | M03 | | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

Selection and Ordering data

Article No.

Additional Operating Instructions

German

| | |
|--|---------------------|
| 4 ... 20 mA/HART - Two-wire | PBD:51041010 |
| 4 ... 20 mA/HART - Two-wire, Coax probe | PBD:51041011 |
| 4 ... 20 mA/HART - Two-wire, Coax probe with SIL qualification | PBD:51041377 |
| 4 ... 20 mA/HART - Two-wire, Rod and cable probe | PBD:51041378 |
| 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 |
| FOUNDATION Fieldbus | PBD:51041018 |
| FOUNDATION Fieldbus - Coax probe | PBD:51041019 |

Note: Operating instructions should be ordered as a separate line on the order.

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

This device is shipped with the Siemens Level and Weighing 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 - Two-wire, Coax probe with SIL qualification | PBD:51041387 |
| 4 ... 20 mA/HART - Two-wire, Rod and cable probe | PBD:51041388 |
| 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 |
| FOUNDATION Fieldbus | PBD:51041055 |
| FOUNDATION Fieldbus - Coax probe | PBD:51041056 |

Note: Operating instructions should be ordered as a separate line on the order.

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

This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library.

Selection and Ordering data

Article No.

Accessories

| | |
|---|----------------------|
| SITRANS LG, GWR sensor Display Module | A5E34143449 |
| SITRANS LG, two-wire 4 ... 20 mA/HART electronic | A5E35637821 |
| SITRANS LG, USB communicator | A5E35192015 |
| SITRANS LG, Mounting eye M12 x 20 | PBD:51041448 |
| SITRANS LG, Mounting spring | PBD:51041449 |
| Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia | 7NG4124-0AA00 |
| SITRANS RD100, loop powered display - see Chapter 7 | 7ML5741-... |
| SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 | 7ML5740-... |
| SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 | 7ML5744-... |
| SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 | 7ML5750-... |
| For applicable back up point level switch - see point level measurement section | |

- 1) Available with Housing/Protection cable options E, F, G, H, Q, R, and T (double chamber only)
- 2) Not available with Process fitting/Material options 04, 05, 08, 10, 13, and 14
- 3) Available only with Process Fitting/Material options 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, G, H, Q, R, T (double chamber options only)
- 14) Available only with Housing/Protection cable options C, D, L, M
- 15) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01
- 16) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0P, 1E, 1F, 2A, and 3A
- 17) Not Available with Approval options 0B ... 0H 0P, 0Q, and 1B (not available with Intrinsically Safe and shipping approvals)
- 19) Not available with Length options 3, 4, 5, R2C, and R2D
- 20) Available only with Seal options C, E, F, J, M, N, and Q [second line of defense (with glass seal) for all explosion proof options]
- 21) Available with Indicating/adjustment module options E00 and E01
- 22) Not available with Y02
- 23) Available with Housing/Protection options C, D, E, F, L, M, Q, R (dust approvals)
- 25) Available with Process Fitting/Material options 04, 05, 08, 10, 13 ... 45
- 26) Not available with Process fitting /Material options 04, 05, 08, 10, 13, and 14
- 27) Not available with Process Fitting/Material options 00 and 01
- 28) Available with Housing/Protection/Cable options A, B, C, D, E, F, L, M, R, S, T, and U
- 29) Available with Electronic option 0 only
- 30) Listed Certificates are not available with all configurations, please contact factory for more information
- 31) Not available with Process fitting/Material options 02, 03, 06, 07, 11, and 12 or threaded options below PN 100
- 32) Available with supplementary electronic option A00, SIL electronics
- 33) Available with Approvals options 0A, 0J, 0K, 0R, 0S, 1A, 1C, 1E, and 1G
- 35) Available with supplementary electronic option A00
- 36) Available with Indicating/adjustment module options E00, E01
- 37) Not available with version/material option K
- 38) Not available with Seal/Process temperature options A, G, K, and Q
- 39) Not available with Indicating/adjustment module option E02

- 40) Available with Housing/protection options D, F, M, R (dust approvals)
- 41) Available with Version/Material A, B, C, D, E, and F
- 42) Only available with Seal/Process temperature N
- 43) Not available with Supplementary electronic option A01
- 44) Available with Housing/protection options W and Y
- 45) Available with Housing/protection options J and X
- 46) Available with Electronics options 0, 2, and 5
- 47) Available with Electronics options 0, 1, 3, 4
- 48) Available with Electronics options 0, 1, 2, 3, 4
- 49) Not available with Electric Options 1, 3, 4, 5, 6 and Housing/Protection/
Cable Option Q1A
- 50) Available with Housing/Protection/Cable options Q1A
- 51) Not available with Housing options A, B, G, and H



Note: Please consult manual for further details.

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|--|-----------------|-----------|---|-----------------|-----------|
| SITRANS LG260 | 7ML5882- | | SITRANS LG260 | 7ML5882- | |
| A guided wave radar sensor for level measurement of solids. | | | A guided wave radar sensor for level measurement of solids. | | |
| Click on the Article No. for the online configuration in the PIA Life Cycle Portal. | | | | | |
| Approvals | | | Approvals | | |
| Ordinary location CE ⁴)12)21)22) | 0 A | | INMETRO Ex d ia IIC T6 ... T1 | 3 C | |
| Shipping approval ⁹)10)21) | 0 B | | INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb | 3 D | |
| Overfill protection (WHG; VLAREM) ²⁶ | 0 C | | INMETRO Ex d IIC T6 ... T1 ²⁷ | 3 E | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ⁴)12)21)22) | 0 E | | INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb ²⁷ | 3 F | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ⁴)12)21)22)26) | 0 F | | INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db | 3 G | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ⁹)21) | 0 G | | KOSHA Ex d IIC T6 ... T1 – KE | 4 A | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁸)10)12)21)23)24) | 0 H | | Probe version/Material | | |
| ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁷)12) | 0 J | | Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316 ²⁸ | A | |
| ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ¹⁷)9)10) | 0 L | | Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/316 ²⁸ | B | |
| ATEX II 1/2G, 2G Ex d ia IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁷)8)12)24) | 0 M | | Probe exchangeable cable ø 6 mm (0.24 inch) with gravity weight/PA coated | C | |
| ATEX II 1/2G, 2G Ex d IIC T6 ⁸)11)12)21)25)27) | 0 N | | Probe exchangeable cable ø 11 mm (0.43 inch) with gravity weight/PA coated | D | |
| ATEX II 1/2G, 2G Ex d IIC + shipping approval ⁸)9)10)11)21)25)27) | 0 Q | | Probe exchangeable rod ø 16 mm (0.63 inch)/316L ²⁾⁶⁾²⁸ | E | |
| ATEX II 1/2G, 2G Ex d IIC + II 1D, 1/2D, 1/3D, 2D IP66 ⁸)11)12)21)23)25)27) | 0 R | | Process fitting/Material | | |
| ATEX II 1D, 1/2D, 2D IP6x T ⁸)11)12)21)23)24)25) | 0 S | | Thread G 3/4" (DIN 3852-A) PN 40/316L | 0 0 | |
| IEC Ex ia IIC T6 ⁴)12)21)22) | 0 T | | Thread 3/4" NPT (ASME B1.20.1) PN 40/316L | 0 1 | |
| IEC Ex ia IIC T6 + IEC IP6x T tD ⁸)11)12)21)25)27) | 0 U | | Thread G 1" (DIN 3852-A) PN 40/316L | 0 2 | |
| IEC Ex d ia IIC T6 ¹⁷)12) | 1 A | | Thread 1" NPT (ASME B1.20.1) PN 40/316L | 0 3 | |
| IEC Ex d ia IIC T6 + IEC IP6x T tD ⁷)8)12)21) | 1 B | | Thread G 1 1/2" (DIN 3852-A) PN 40/316L | 0 4 | |
| IEC Ex d IIC T6 ⁸)11)12)21) 25)27) | 1 C | | Thread 1 1/2" NPT (ASME B1.20.1) PN 40/316L | 0 5 | |
| IEC Ex d IIC T6 + IEC IP6x T tD ⁸)11)12) 21)23) 25)27) | 1 D | | Thread G 2" (DIN 3852-A) PN 40/316L | 0 6 | |
| FM (NI) Class I, Div. 2, Groups A, B, C, D ¹²⁾²¹⁾²⁹⁾ | 1 F | | Flange DN 50 PN 40 Form C, DIN 2501/316L | 1 0 | |
| FM (NI) Class I, Div. 2, Groups A, B, C, D + Ship approval ⁹)10)21) | 1 G | | Flange DN 80 PN 40 Form C, DIN 2501/316L | 1 2 | |
| FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F ¹²⁾²¹⁾ | 1 H | | Flange DN 100 PN 16 Form C, DIN 2501/316L | 1 3 | |
| FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ⁹)10)21) | 1 J | | Flange DN 100 PN 40 Form C, DIN 2501/316L | 1 4 | |
| FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁷)12) | 1 K | | Flange DN 150 PN 16 Form C, DIN 2501/316L | 1 5 | |
| FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + shipping approval ¹⁷)9)10) | 1 L | | Flange DN 50 PN 40 EN 1092-1 Form B1/316L | 1 6 | |
| FM (XP) Class I, Div. 1, Groups A, B, C, D ⁸)11)12)21)25)27) | 1 M | | Flange DN 80 PN 40 EN 1092-1 Form B1/316L | 1 7 | |
| CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ⁴)8)12)21)22)23)24) | 1 N | | Flange DN 100 PN 16 EN 1092-1 Form B1/316L | 1 8 | |
| CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁴)12)21)22) | 1 P | | Flange 2" 150 lb RF, ANSI B16.5/316L | 3 0 | |
| CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁷)12) | 1 Q | | Flange 2" 300 lb RF, ANSI B16.5/316L | 3 2 | |
| CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ⁸)11)12)21)25)27) | 1 R | | Flange 3" 150 lb RF, ANSI B16.5/316L | 3 3 | |
| NEPSI Ex ia IIC T6 ⁴) | 2 A | | Flange 3" 300 lb RF, ANSI B16.5/316L | 3 4 | |
| NEPSI Ex ia IIC T6 + DIP A20/21 TA T* | 2 B | | Flange 4" 150 lb RF, ANSI B16.5/316L | 3 5 | |
| NERSI Ex d ia IIC T6 | 2 C | | Flange 4" 300 lb RF, ANSI B16.5/316L | 3 6 | |
| NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* | 2 D | | Flange 6" 150 lb RF, ANSI B16.5/316L | 3 7 | |
| NEPSI Ex d IIC T6 ²⁷) | 2 E | | Electronics | | |
| NEPSI Ex d IIC T6 + DIP A20/21 TA T* ²⁷) | 2 F | | Two-wire 4 ... 20 mA/HART | 0 | |
| NEPSI DIP A20/21 TA T* | 2 G | | Four-wire Modbus ¹⁶)17)18)19) | 1 | |
| INMETRO Ex ia IIC T6 ... T10 ⁴) | 3 A | | Two-wire 4 ... 20 mA/HART with SIL qualification ¹⁵) | 2 | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb | 3 B | | Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ¹⁾³⁾⁵) | 3 | |
| | | | Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ¹⁾³⁾⁵) | 4 | |
| | | | PROFIBUS PA ²²) | 5 | |
| | | | FOUNDATION Fieldbus | 6 | |
| | | | Seal/Process temperature | | |
| | | | FKM (SHS FPM 70C3 GLT)/-40 ... +80 °C (-40 ... +176 °F) | A | |
| | | | FKM (SHS FPM 70C3 GLT)/-40 ... +150 °C (-40 ... +302 °F) | B | |
| | | | FFKM (Kalrez 6375)/-20 ... +200 °C (-4 ... +392 °F) | C | |

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|--|---|-----------|---|---|----------------|
| SITRANS LG260 | 7ML5882- | | SITRANS LG260 | 7ML5882- | |
| A guided wave radar sensor for level measurement of solids. |  | | A guided wave radar sensor for level measurement of solids. |  | |
| EPDM (A+P 75.5/KW75F)/without/ -40...+80 °C (-40 ... +176 °F) | | D | <u>Cable lengths ø 4 mm/316</u> | | |
| EPDM (A+P 75.5/KW75F)/without/ -40 ... +150 °C (-40 ... +392 °F) | | E | 501 ... 1 000 mm (19.72 ... 39.37 inch) | | 9 R 2 E |
| Housing/Protection/Cable | | | 1 001 ... 5 000 mm (39.41 ... 196.85 inch) | | 9 R 2 F |
| Plastic IP66/IP67 M20 x 1.5/blind stopper | | A | 5 001 ... 10 000 mm (196.89 ... 393.70 inch) | | 9 R 2 G |
| Plastic IP66/IP67 1/2" NPT/blind stopper | | B | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | | 9 R 2 H |
| Plastic 2-chamber/IP66/IP67/M20 x 1.5/ blind stopper | | C | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | | 9 R 2 J |
| Plastic 2-chamber/IP66/IP67/ 1/2" NPT/ blind stopper | | D | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | | 9 R 2 K |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ blind stopper | | E | 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | | 9 R 2 L |
| Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/ blind stopper | | F | 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | | 9 R 2 M |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | | G | 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | | 9 R 2 N |
| Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | | H | 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | | 9 R 2 P |
| Stainless Steel (precision casting) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper | | J | 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) | | 9 R 2 Q |
| Stainless steel (precision casting) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper | | K | 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) | | 9 R 2 R |
| Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/blind stopper | | L | 55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch) | | 9 R 2 S |
| Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper | | M | <u>Cable lengths ø 6 mm/316L</u> | | |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | | N | 500 mm (19.69 inch) | | 9 R 4 A |
| Stainless steel double chamber/IP66/ IP68 (0.2 bar) 1/2" NPT/blind stopper | | P | 501 ... 1 000 mm (19.72 ... 39.37 inch) | | 9 R 4 B |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland stainless steel | | Q | 1 001 ... 5 000 mm (39.41 ... 196.85 inch) | | 9 R 4 C |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | | R | 5 001 ... 10 000 mm (196.89 ... 393.70 inch) | | 9 R 4 D |
| Stainless steel (precision casting) 316L/ IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | | S | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | | 9 R 4 E |
| Stainless steel (electropolished) 316L/IP66/ IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | | T | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | | 9 R 4 F |
| Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | | W | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | | 9 R 4 G |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel- plated | | X | 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | | 9 R 4 H |
| Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | | Y | 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | | 9 R 4 J |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel- plated | | U | 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | | 9 R 4 K |
| Lengths | | | 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | | 9 R 4 L |
| <u>Rod ø 16 mm/316L</u> | | | 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) | | 9 R 4 M |
| 500 mm (19.69 inch) | | 0 | 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) | | 9 R 4 N |
| 501 ... 1 000 mm (19.72 ... 39.37 inch) | | 1 | 55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch) | | 9 R 4 P |
| 1 001 ... 2 000 mm (39.41 ... 78.74 inch) | | 2 | <u>Cable lengths ø 6 mm or ø 11 mm/PA coated</u> | | |
| 2 001 ... 3 000 mm (78.78 ... 118.11 inch) | | 3 | 501 ... 1 000 mm (19.72 ... 39.37 inch) | | 9 R 6 A |
| 3 001 ... 4 000 mm (118.15 ... 157.48 inch) | | 4 | 1 001 ... 5 000 mm (39.41 ... 196.85 inch) | | 9 R 6 B |
| 4 001 ... 5 000 mm (157.52 ... 196.85 inch) | | 5 | 5 001 ... 10 000 mm (196.89 ... 393.70 inch) | | 9 R 6 C |
| 5 001 ... 6 000 mm (196.89 ... 236.22 inch) | | 6 | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | | 9 R 6 D |
| | | | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | | 9 R 6 E |
| | | | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | | 9 R 6 F |
| | | | 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | | 9 R 6 G |
| | | | 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | | 9 R 6 H |
| | | | 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | | 9 R 6 J |
| | | | 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | | 9 R 6 K |
| | | | 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) | | 9 R 6 L |
| | | | 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) | | 9 R 6 M |
| | | | 55 001 ... 65 000 mm (2 165.39 ... 2 559.06 inch) | | 9 R 6 N |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Order code | Selection and Ordering data | Order code |
|--|------------|---|------------|
| Further designs (mandatory) | | Further designs (optional) | |
| Please add "-Z" to Article No. and specify Order code(s). | | Please add "-Z" to Article No. and specify Order code(s). | |
| Supplementary electronics | | Enter the total insertion length in plain text description | Y01 |
| Without | A00 | Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y17 |
| Additional current output 4 ... 20 mA ¹⁾²⁰⁾ | A01 | Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y18 |
| Rod mounted | | 3.1-Inspection Certificate for instrument (EN 10204) ¹³⁾ | C12 |
| Without Rod, applicable for coax or cable probe types only | C00 | 3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ¹³⁾ | D07 |
| Mounted | C01 | 3.1-Inspection Certificate for instrument with test data (EN 10204) ¹³⁾ | C25 |
| Not mounted | C02 | 2.2-Factory certificate for material (EN 10204) ¹³⁾ | C15 |
| Indicating/adjustment module | | Quality and test plan ¹³⁾ | C26 |
| Without | E00 | Dye penetration test + 3.1 certificate/instrument ¹³⁾ | C13 |
| Mounted | E01 | X-ray test + 3.1 certificate/instrument ¹³⁾ | C14 |
| Laterally mounted ¹⁾ | E02 | Positive material identification test + 3.1 certificate/instrument ¹³⁾ | C16 |
| Language of display | | Roughness test + 3.1 certificate/instrument ¹³⁾ | C18 |
| German | L00 | Pressure test + 3.1 certificate/instrument ¹³⁾ | C31 |
| English | L01 | Helium leak test + 3.1 certificate/instrument ¹³⁾ | C32 |
| French | L02 | Pressure test according to Norsok + 3.1 certificate/instrument ¹³⁾ | C61 |
| Dutch | L03 | 5 point calibration certificate (min. length 1 000 mm) ¹³⁾ | C62 |
| Italian | L04 | | |
| Spanish | L05 | | |
| Portuguese | L06 | | |
| Russian | L07 | | |
| Chinese | L08 | | |
| Japanese | L09 | | |
| Operating instructions | | | |
| German | M00 | | |
| English | M01 | | |
| French | M02 | | |
| Spanish | M03 | | |

| Selection and Ordering data | Article No. | Selection and Ordering data | Article No. |
|---|---------------------|---|----------------------|
| <i>Operating Instructions</i> | | <i>Accessories</i> | |
| German | | SITRANS LG, GWR sensor Display Module | A5E34143449 |
| 4 ... 20 mA/HART - Two-wire | PBD:51041020 | SITRANS LG, two-wire 4 ... 20 mA/HART electronic | A5E35637821 |
| 4 ... 20 mA/HART - Two-wire, Rod and cable probe | PBD:51041379 | SITRANS LG, USB communicator | A5E35192015 |
| 4 ... 20 mA/HART - Four-wire | PBD:51041021 | SITRANS LG, Mounting eye M12 x 20 | PBD:51041448 |
| Modbus | PBD:51041022 | SITRANS LG, Mounting spring | PBD:51041449 |
| PROFIBUS PA | PBD:51041023 | Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia | 7NG4124-0AA00 |
| FOUNDATION Fieldbus | PBD:51041024 | SITRANS RD100, loop powered display - see Chapter 7 | 7ML5741-... |
| Note: Operating instructions should be ordered as a separate line on the order. | | SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 | 7ML5740-... |
| All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library. | | SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 | 7ML5744-... |
| English | | SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 | 7ML5750-... |
| 4 ... 20 mA/HART - Two-wire | PBD:51041057 | For applicable back up point level switch - see point level measurement section | |
| 4 ... 20 mA/HART - Two-wire, Rod and cable probe | PBD:51041389 | 1) Available only with Housing/Protection/Cable options C, D, G, H, N, P | |
| 4 ... 20 mA/HART - Four-wire | PBD:51041058 | 2) Not available with Process/Fitting/Material options 00, 01, 02, and 03 | |
| Modbus | PBD:51041059 | 3) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01 | |
| PROFIBUS PA | PBD:51041060 | 4) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0T, 1N, 1P, 2A, and 3A | |
| FOUNDATION Fieldbus | PBD:51041061 | 5) Not available with Approval options 0B ... 0H, 0L, 0Q, 1B, 1F, 1G, 1J, 1L (not available with Intrinsically Safe and shipping approvals) | |
| Note: Operating instructions should be ordered as a separate line on the order. | | 6) Available with Rod Mounted options C01 and C02 | |
| All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library. | | 7) Available with Indicating/adjustment module options E00 and E01 | |
| | | 8) Available with Housing Protection options C,D E, F, G, H, J, K, N, P | |
| | | 9) Not available with Housing/ Protection/ Cable options L, M, and T | |
| | | 10) Available with Electronic option 0 only | |
| | | 11) Available with Seal/ Process temperature option C only | |
| | | 12) Available with Version/ Material option E only | |
| | | 13) Listed Certificates are not available with all configurations, please contact factory for more information | |
| | | 15) Available with supplementary electronic option A00, SIL electronics | |
| | | 16) Available with Approvals options 0A, 0J, 0K, 0R, 0S,1A,1C,1E, and 1G | |
| | | 17) Available with Housings/ Protection/ Cable options E, F, L, M, and P | |
| | | 18) Available with supplementary electronic option A00 | |
| | | 19) Available with Indicating/adjustment module options E00, E01 | |
| | | 20) Not available with Indicating/adjustment module option E02 | |
| | | 21) Available with Housing Protection F, H, P, and K | |
| | | 22) Not available with Supplementary electronic option A01 | |
| | | 23) Available with Housing/ protection options W and Y | |
| | | 24) Available with Housing/ protection options X and U | |
| | | 25) Available with Housing/ protection Cable options E, F, J, K, W, Y only | |
| | | 26) Available with Electronics options 0, 2, and 5 | |
| | | 27) Available with Seal/ Process option C | |
| | | 28) Probe options A, B, and E cannot be paired with seal options A and D | |
| | | 29) Not available with Housing options A and B | |
| | | Note: Please consult manual for further details. | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|---|-----------------|-----------|--|-----------------|-----------|
| SITRANS LG270 | 7ML5883- | | SITRANS LG270 | 7ML5883- | |
| A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications | | | A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications | | |
| ➔ Click on the Article No. for the online configuration in the PIA Life Cycle Portal. | | | | | |
| Approvals | | | Version/Material | | |
| Ordinary location CE ³⁾ | 0 A | | INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d ia IIC T6 Ga/Gb | 3 D | |
| Shipping approval ¹⁷⁾¹⁸⁾¹⁹⁾ | 0 B | | INMETRO Ex d IIC T6 ... T1 | 3 E | |
| Overfill protection (WHG; VLAREM) ³⁴⁾ | 0 C | | INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex d IIC T6 Ga/Gb | 3 F | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ³⁾ | 0 E | | INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db | 3 G | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC + Overfill (WHG; VLAREM) ³⁾³⁴⁾ | 0 F | | KOSHA Ex d IIC T6 ... T1 – KE | 4 A | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + shipping approval ¹⁷⁾¹⁸⁾¹⁹⁾ | 0 G | | Probe exchangeable cable ø 2 mm (0.08 inch) with gravity weight/316L⁴⁾⁷⁾ | A | |
| ATEX II 1G, 1/2G, 2G Ex ia IIC + ATEX II 1D, 1/2D, 2D IP6x ¹⁶⁾²⁸⁾³²⁾³³⁾ | 0 H | | Probe exchangeable cable ø 2 mm (0.08 inch) center weight/316L⁵⁾⁷⁾ | B | |
| ATEX II 1/2G, 2G Ex d ia IIC T6 ¹⁾¹⁰⁾¹⁴⁾³³⁾ | 0 J | | Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/316L⁴⁾⁷⁾ | C | |
| ATEX II 1/2G, 2G Ex d ia IIC + shipping approval ¹⁾¹⁰⁾¹⁴⁾¹⁷⁾¹⁸⁾¹⁹⁾ | 0 L | | Probe exchangeable cable ø 4 mm (0.16 inch) with center weight/316L⁵⁾⁷⁾ | D | |
| ATEX II 1/2G, 2G Ex d ia IIC + ATEX II 1/2D, 2D IP6x ¹⁰⁾¹⁴⁾¹⁶⁾²⁸⁾³³⁾ | 0 M | | Probe exchangeable rod ø 16 mm (0.63 inch)/316L⁴⁾⁷⁾⁹⁾ | E | |
| ATEX II 1/2G, 2G Ex d IIC T6 ¹¹⁾ | 0 N | | Probe coax version ø 42.2 mm (1.66 inch) with multiple hole/316L⁴⁾⁷⁾ | F | |
| ATEX II 1/2G, 2G Ex d IIC + ship approval ¹⁷⁾¹⁸⁾¹⁹⁾ | 0 Q | | Probe coax version ø 42.2 mm (1.66 inch); multiple hole; reference distances/316L⁴⁾⁷⁾¹³⁾³⁰⁾³⁶⁾ | G | |
| ATEX II 1/2G, 2G Ex d IIC + ATEX II 1/2D, 2D IP6x ¹¹⁾¹⁶⁾²⁸⁾³²⁾ | 0 R | | Probe exchangeable cable ø 4 mm (0.16 inch) with gravity weight/Alloy C22 (2.4602)⁷⁾ | H | |
| ATEX II 1D, 1/2D, 2D IP6x T ¹⁶⁾²⁸⁾³²⁾³³⁾ | 0 S | | Probe exchangeable rod ø 16 mm (0.63 inch)/Alloy C22 (2.4602)⁷⁾ | J | |
| IEC Ex ia IIC T6 ³⁾ | 0 T | | Coax version ø 42.2 mm (1.66 inch) with multiple hole/Alloy C22 (2.4602)⁷⁾ | K | |
| IEC Ex ia IIC T6 + IEC IP6x T d ¹⁶⁾²⁸⁾³²⁾³³⁾ | 0 U | | Exchangeable cable ø 8 mm (0.32 inch)/316L | L | |
| IEC Ex d ia IIC T6 ¹⁾¹⁰⁾¹⁴⁾³³⁾ | 1 A | | Process fitting/Material | | |
| IEC Ex d ia IIC T6 + IEC IP6x T d ¹⁰⁾¹⁴⁾¹⁶⁾²⁸⁾³³⁾ | 1 B | | Thread G 1 1/2" (DIN 3852-A) PN 400/316L | 0 0 | |
| IEC Ex d IIC T6 ¹¹⁾ | 1 C | | Thread 1 1/2" NPT (ASME B1.20.1) PN 400/316L | 0 1 | |
| IEC Ex d IIC T6 + IEC IP6x T d ¹¹⁾¹⁶⁾²⁸⁾³²⁾ | 1 D | | Thread G1 1/2" PN 400, DIN 3852-A/Alloy C22 (2.4602) | 0 2 | |
| FM (NI) Class I, Div. 2, Groups A, B, C, D ³⁷⁾ | 1 F | | Thread 1 1/2" NPT PN 400, ASME B1.20.1/Alloy C22 (2.4602) | 0 3 | |
| FM (NI) Class I, Div. 2, Groups A, B, C, D + ship approval ¹⁷⁾¹⁸⁾¹⁹⁾³⁷⁾ | 1 G | | Flange DN 50 PN 40 Form C, DIN 2501/316L with Alloy C22 (2.4602) coating | 0 4 | |
| FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F | 1 H | | Flange DN 80 PN 40 Form C, DIN 2501/316L with Alloy C22 (2.4602) coating | 0 5 | |
| FM (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G + ship approval ¹⁷⁾¹⁸⁾¹⁹⁾ | 1 J | | Flange DN 100 PN 16 Form C, DIN 2501/316L with Alloy C22 (2.4602) coating | 0 6 | |
| FM (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹⁰⁾¹⁴⁾ | 1 K | | Flange DN 50 PN 40 Form B1, EN 1092-1/316L with Alloy C22 (2.4602) coating | 0 7 | |
| 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 | | Flange DN 50 PN 63 Form B1, EN 1092-1/316L with Hastelloy C22 | 0 8 | |
| FM (XP) Class I, Div. 1, Groups A, B, C, D | 1 M | | Flange DN 50 PN 40 Form C, DIN 2501/316L | 1 0 | |
| CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G ³⁾¹⁶⁾³²⁾³³⁾ | 1 N | | Flange DN 50 PN 40 form V13, DIN 2513/316L | 1 1 | |
| CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ³⁾ | 1 P | | Flange DN 65 PN 64 Form V13, DIN 2501/316L | 1 2 | |
| CSA (XP-IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹⁾¹⁰⁾¹⁴⁾ | 1 Q | | Flange DN 80 PN 40 Form C, DIN 2501/316L | 1 3 | |
| CSA (XP) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G ¹¹⁾ | 1 R | | Flange DN 80 PN 40 Form V13, DIN 2501/316L | 1 4 | |
| NEPSI Ex ia IIC T6 ³⁾ | 2 A | | Flange DN 80 PN 100 Form L, DIN 2501/316L | 1 5 | |
| NEPSI Ex ia IIC T6 + DIP A20/21 TA T* | 2 B | | Flange DN 100 PN 16 Form C, DIN 2501/316L | 1 6 | |
| NERSI Ex d ia IIC T6 | 2 C | | Flange DN 100 PN 16 Form V13, DIN 2501/316L | 1 7 | |
| NEPSI Ex d ia IIC T6 + DIP A20/21 TA T* | 2 D | | Flange DN 100 PN 40 Form C, DIN 2501/316L | 1 8 | |
| NEPSI Ex d IIC T6 | 2 E | | Flange DN 100 PN 40 Form V13, DIN 2513/316L | 2 0 | |
| NEPSI Ex d IIC T6 + DIP A20/21 TA T* | 2 F | | | | |
| NEPSI DIP A20/21 TA T* | 2 G | | | | |
| INMETRO Ex ia IIC T6 ... T1 ³⁾ | 3 A | | | | |
| INMETRO Ex t IIIC T* IP6X, Da, Da/Db, Da/Dc, Db + Ex ia IIC T6, Ga, Ga/Gb | 3 B | | | | |
| INMETRO Ex d ia IIC T6 ... T1 | 3 C | | | | |

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|---|-----------------|-----------|---|-----------------|--------------|
| SITRANS LG270 | 7ML5883- | | SITRANS LG270 | 7ML5883- | |
| A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications | | | A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications | | |
| Flange DN 150 PN 16 Form C, DIN 2501/316L | 2 1 | | Flange DN 50 PN 40 Form C, DIN 2501/ Alloy C22 (2.4602) solid | 7 1 | |
| Flange DN 50 PN 40 EN 1092-1 Form B1/316L | 2 2 | | Flange DN 100 PN 16 Form C, DIN 2501/C22 solid | 7 2 | |
| Flange DN 100 PN 160 GOST 12815-80.7/316L | 2 3 | | Flange DN 100 PN 40 Form N, DIN 2501/ Alloy C22 (2.4602) solid | 7 3 | |
| Flange 2" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 2 4 | | Flange DN 50 PN 40 Form B1, EN 1092-1/ Alloy C22 (2.4602) solid | 7 4 | |
| Flange 2" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 2 5 | | Flange 2" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 7 5 | |
| Flange 2" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 2 6 | | Flange 2" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 7 6 | |
| Flange 3" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 2 7 | | Flange 2" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 7 7 | |
| Flange 3" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 2 8 | | Flange 2" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 7 8 | |
| Flange DN 80 PN 160 Form C, DIN 2501/316L | 6 0 | | Flange 2" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 8 0 | |
| Flange DN 80 PN 250 Form L, DIN 2501/316L | 6 1 | | Flange 3" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 8 1 | |
| Flange DN 50 PN 160, EN 1092-1 Form B1/ 316L | 6 2 | | Flange 3" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 8 2 | |
| Flange DN 50 PN 160, EN 1092-1 Form B2/ 316L | 6 3 | | Flange 3" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 8 3 | |
| Flange DN 50 PN 320, EN 1092-1 Form B1/ 316L | 6 4 | | Flange 4" 150 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 8 4 | |
| Flange DN 65 PN 250, EN 1092-1 Form B1/ 316L | 6 5 | | Flange 4" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 8 5 | |
| Flange DN 100 PN 160, EN 1092-1 Form B2/ 316L | 6 6 | | Flange 3" 600 lb RJF for R31, ASME B16.5/ Alloy C22 (2.4602) solid | 8 6 | |
| Flange DN 80 PN 63, EN 1092-1 Form B2/ 316L | 6 7 | | Flange 2" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 A |
| Flange 4" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 6 8 | | Flange 3" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 B |
| Flange 2" 150 lb RF, ANSI B16.5/316L | 3 0 | | Flange 3" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 C |
| Flange 2" 300 lb RF, ANSI B16.5/316L | 3 1 | | Flange 4" 600 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 D |
| Flange 2" 600 lb RF, ANSI B16.5/316L | 3 2 | | Flange 4" 600 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 E |
| Flange 2" 1 500 lb RF, ANSI B16.5/316L | 3 3 | | Flange 4" 900 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 F |
| Flange 3" 150 lb RF, ANSI B16.5/316L | 3 4 | | Flange 4" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) massiv | 9 0 | L 1 G |
| Flange 3" 300 lb RF, ANSI B16.5/316L | 3 5 | | Flange 4" 1 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 H |
| Flange 3" 600 lb RF, ANSI B16.5/316L | 3 6 | | Flange 4" 2 500 lb RJF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 J |
| Flange 3" 900 lb RF, ANSI B16.5/316L | 3 7 | | Flange 8" 300 lb RF, ASME B16.5/ Alloy C22 (2.4602) solid | 9 0 | L 1 K |
| Flange 3" 2 500 lb RF, ANSI B16.5/316L | 3 8 | | Flange 3½" 600 lb Fisher type 249B and 259B/ Alloy C22 (2.4602) solid | 9 0 | L 1 L |
| Flange 3 1/2" 600 lb RF, ANSI B16.5/316L | 4 0 | | Flange 2½" 300 lb RF, SF, ASME B16.5/316/ 316L | 9 0 | L 2 A |
| Flange 4" 150 lb RF, ANSI B16.5/316L | 4 1 | | Flange 2½" 600 lb RF, SF, ASME B16.5/316/ 316L | 9 0 | L 2 B |
| Flange 4" 300 lb RF, ANSI B16.5/316L | 4 2 | | Thread G 3/4" (DIN 3852-A) PN 100/316L | 9 0 | L 3 A |
| Flange 4" 600 lb RF, ANSI B16.5/316L | 4 3 | | Thread 3/4" NPT, ASME B1.20.1/PN 400/316L | 9 0 | L 3 B |
| Flange 6" 150 lb RF, ANSI B16.5/316L | 4 4 | | Thread G 1" (DIN 3852-A) PN 100/316L | 9 0 | L 3 C |
| Flange 6" 300 lb RF, ANSI B16.5/316L | 4 5 | | Thread 1" NPT, ASME B1.20.1/PN 100/316L | 9 0 | L 3 D |
| Flange 6" 600 lb RF, ANSI B16.5/316L | 4 6 | | Thread G 1½" (DIN 3852-A) PN 100/316L | 9 0 | L 3 E |
| Flange 2" 150 lb Fisher special return/316L | 4 7 | | Thread 1½" NPT, ASME B1.20.1/PN100/316L | 9 0 | L 3 F |
| Flange 3" 900 lb RJF, ASME B16.5/ Alloy C22 (2.4602) | 4 8 | | Thread 2" NPT, ASME B1.20.1/PN 100/316L | 9 0 | L 3 G |
| Flange 2" 900 lb RF, ANSI B16.5/316L | 5 0 | | | | |
| Flange 3" 1 500 lb RF, ANSI B16.5/316L | 5 1 | | | | |
| 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 | | | | |
| Flange 4" 1500 lb RJF, ASME B16.5/316L | 5 5 | | | | |
| Flange 3" 600 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 5 6 | | | | |
| Flange 4" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 5 7 | | | | |
| Flange 4" 300 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 5 8 | | | | |
| Flange 6" 150 lb RF, ASME B16.5/316L with Alloy C22 (2.4602) coating | 7 0 | | | | |

Level Measurement

Continuous level measurement - Guided wave radar transmitters


SITRANS LG series

| Selection and Ordering data | Article No. | Ord. Code | Selection and Ordering data | Article No. | Ord. Code |
|--|-----------------|-----------|---|-----------------|-----------|
| SITRANS LG270 | 7ML5883- | | SITRANS LG270 | 7ML5883- | |
| A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications | | | A guided wave radar sensor for continuous level and interface measurement of liquids in aggressive applications | | |
| Electronics | | | Lengths | | |
| Two-wire 4 ... 20 mA/HART | | 0 | <u>Rod ø 16 mm/316L</u> | | |
| Four-wire Modbus ⁽²³⁾⁽²⁴⁾⁽²⁵⁾⁽²⁶⁾ | | 1 | 300 mm (11.81 inch) ⁽¹⁵⁾ | | 0 |
| Two-wire 4 ... 20 mA/HART with SIL qualification ⁽²²⁾ | | 2 | 500 mm (19.69 inch) ⁽¹⁵⁾ | | 1 |
| Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz ⁽¹⁾⁽²⁾⁽⁶⁾ | | 3 | 501 ... 1 000 mm (19.72 ... 39.37 inch) ⁽¹⁵⁾ | | 2 |
| Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC ⁽¹⁾⁽²⁾⁽⁶⁾ | | 4 | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽¹⁵⁾ | | 3 |
| PROFIBUS PA ⁽³¹⁾ | | 5 | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽¹⁵⁾ | | 4 |
| FOUNDATION Fieldbus | | 6 | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽¹⁵⁾ | | 5 |
| Seal/Second line of defense/ Process temperature | | | 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ⁽¹⁵⁾ | | 6 |
| Ceramic-graphite/with glass seal/ -196 ... +280 °C (-321 ... +536 °F) | A | | 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ⁽¹⁵⁾ | | 7 |
| Ceramic-graphite/with glass seal/ -196 ... +450 °C (-321 ... +842 °F) | B | | <u>Rod ø 16 mm/C22</u> | | |
| Ceramic-graphite/with glass seal/ -196 ... +400 °C (-321 ... +752 °F) | C | | 501 ... 1000 mm (19.72 ... 39.37 inch) ⁽¹⁵⁾ | 9 | R1 A |
| PEEK-FFKM (Kalrez 6375) /with glass seal/ -20...+250 °C (-4 ... +482 °F) ⁽³⁸⁾ | D | | 1 001 ... 2 000 mm (39.41 ... 78.74 inch) ⁽¹⁵⁾ | 9 | R1 B |
| Housing/Protection/Cable | | | 2 001 ... 3 000 mm (78.78 ... 118.11 inch) ⁽¹⁵⁾ | 9 | R1 C |
| Plastic IP66/IP67 M20 x 1.5/blind stopper | A | | 3 001 ... 4 000 mm (118.15 ... 157.48 inch) ⁽¹⁵⁾ | 9 | R1 D |
| Plastic IP66/IP67 1/2" NPT/blind stopper | B | | 4 001 ... 5 000 mm (157.52 ... 196.85 inch) ⁽¹⁵⁾ | 9 | R1 E |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ blind stopper | C | | 5 001 ... 6 000 mm (196.89 ... 236.22 inch) ⁽¹⁵⁾ | 9 | R1 F |
| Aluminum/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | D | | <u>Rod ø 8 mm/C22</u> | | |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | E | | 300 ... 6 000 mm (11.81 ... 216.53 inch) ⁽¹⁵⁾ | 9 | R1 H |
| Aluminum double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | F | | <u>Cable lengths ø 2 or 4 mm/316L</u> | | |
| Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | L | | 501 ... 1 000 mm (19.72 ... 39.37 inch) | 9 | R2 E |
| Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | M | | 1 000 ... 5 000 mm (39.37 ... 196.85 inch) | 9 | R2 F |
| Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | N | | 5 001 ... 10 000 mm (196.89 ... 393.70 inch) | 9 | R2 G |
| Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | P | | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | 9 | R2 H |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/blind stopper | Q | | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | 9 | R2 J |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) 1/2" NPT/blind stopper | R | | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | 9 | R2 K |
| Aluminum/IP66/IP68 (0.2 bar) M20 x 1.5/ cable gland stainless steel | S | | 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | 9 | R2 L |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | T | | 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | 9 | R2 M |
| Stainless steel (precision casting) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | U | | 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | 9 | R2 N |
| Stainless steel (electropolished) 316L/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland stainless steel | V | | 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | 9 | R2 P |
| Aluminum single chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | W | | 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) | 9 | R2 Q |
| Aluminum double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | X | | 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) | 9 | R2 R |
| Stainless steel single chamber (precision casting)/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | Y | | 55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch) | 9 | R2 S |
| Stainless steel double chamber/IP66/IP68 (0.2 bar) M20 x 1.5/cable gland brass nickel-plated | J | | <u>Cable lengths ø 4 mm/ C22</u> | | |
| | | | 501 ... 1 000 mm (19.72 ... 39.37 inch) | 9 | R4 A |
| | | | 1 000 ... 5 000 mm (39.37 ... 196.85 inch) | 9 | R4 B |
| | | | 5 001 ... 10 000 mm (196.89 ... 393.70 inch) | 9 | R4 C |
| | | | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | 9 | R4 D |
| | | | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | 9 | R4 E |
| | | | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | 9 | R4 F |
| | | | 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | 9 | R4 G |
| | | | 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | 9 | R4 H |
| | | | 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | 9 | R4 J |
| | | | 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | 9 | R4 K |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

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

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Order code | Selection and Ordering data | Article No. |
|---|------------|---|---------------------|
| Further designs (optional) | | Additional Operating Instructions | |
| Please add "-Z" to Article No. and specify Order code(s). | | German | |
| Enter the total insertion length in plain text description | Y01 | 4 ... 20 mA/HART - Two-wire | PBD:51041025 |
| Reference probe G length of reference distance = 260 mm/10.24 inches (note blanking 450 mm required with min. probe 1 000 mm) | Y05 | 4 ... 20 mA/HART - Two-wire, Coax probe | PBD:51041026 |
| Reference probe G length of reference distance = 500 mm/19.69 inches (note blanking 690 mm required with min. probe 1 250 mm) | Y06 | 4 ... 20 mA/HART - Two-wire, Coax probe with SIL qualification | PBD:51041380 |
| Reference probe G length of reference distance = 750 mm/29.53 inches (note blanking 940 mm required with min. probe 1 500 mm) | Y07 | 4 ... 20 mA/HART - Two-wire, Rod and cable probe with SIL qualification | PBD:51041381 |
| Enter the total length of rigid part (cable version only) range from 100 ... 1 000 mm | Y02 | 4 ... 20 mA/HART - Four-wire | PBD:51041027 |
| Cleaning included certificate: oil, grease and silicone free | W01 | 4 ... 20 mA/HART - Four-wire, Coax probe | PBD:51041028 |
| Identification Label (measurement loop) stainless steel, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y17 | Modbus | PBD:51041029 |
| Identification Label (measurement loop) foil, 40 characters max, add in plain text. To add more than one line use a coma "," for line break. | Y18 | Modbus - Coax probe | PBD:51041030 |
| 3.1-Inspection Certificate for instrument (EN 10204) ²⁰⁾ | C12 | PROFIBUS PA | PBD:51041031 |
| 3.1-Inspection Certificate for material (EN 10204 NACE MR 0175) ²⁰⁾ | D07 | PROFIBUS PA - Coax probe | PBD:51041032 |
| 3.1-Inspection Certificate for instrument with test data (EN 10204) ²⁰⁾ | C25 | FOUNDATION Fieldbus | PBD:51041033 |
| 2.2-Factory certificate for material (EN 10204) ²⁰⁾ | C15 | FOUNDATION Fieldbus - Coax probe | PBD:51041034 |
| Quality and test plan ²⁰⁾ | C26 | Note: Operating instructions should be ordered as a separate line on the order. | |
| Dye penetration test + 3.1 certificate/instrument ²⁰⁾ | C13 | All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation | |
| X-ray test + 3.1 certificate/instrument ²⁰⁾ | C14 | This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library. | |
| Positive material identification test + 3.1 certificate/instrument ²⁰⁾ | C16 | English | |
| Roughness test + 3.1 certificate/instrument ²⁰⁾ | C18 | 4 ... 20 mA/HART - Two-wire | PBD:51041062 |
| Pressure test + 3.1 certificate/instrument ²⁰⁾ | C31 | 4 ... 20 mA/HART - Two-wire, Coax probe | PBD:51041063 |
| Helium leak test + 3.1 certificate/instrument ²⁰⁾ | C32 | 4 ... 20 mA/HART - Two-wire, Coax probe with SIL qualification | PBD:51041390 |
| Pressure test according to Norsok + 3.1 certificate/instrument ²⁰⁾ | C61 | 4 ... 20 mA/HART - Two-wire, Rod and cable probe with SIL qualification | PBD:51041391 |
| 5 point calibration certificate (min. length 1 000 mm) ²⁰⁾²⁹⁾ | C62 | 4 ... 20 mA/HART - Four-wire | PBD:51041064 |
| Certificate: Approval for steam boiler according to EN 12952-11, EN 12953-9 ³⁵⁾ | C70 | 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 |
| | | FOUNDATION Fieldbus | PBD:51041070 |
| | | FOUNDATION Fieldbus - Coax probe | PBD:51041071 |
| | | Note: Operating instructions should be ordered as a separate line on the order. | |
| | | All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation | |
| | | This device is shipped with the Siemens Level and Weighing manual DVD containing the operating instructions library. | |

| Selection and Ordering data | Article No. |
|---|----------------------|
| Accessories | |
| SITRANS LG, GWR sensor Display Module | A5E34143449 |
| SITRANS LG, two-wire 4 ... 20 mA/HART electronic | A5E35637821 |
| SITRANS LG, USB communicator | A5E35192015 |
| SITRANS LG, Mounting eye M12 x 20 | PBD:51041448 |
| SITRANS LG, Mounting spring | PBD:51041449 |
| Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia | 7NG4124-0AA00 |
| SITRANS RD100, loop powered display - see Chapter 7 | 7ML5741-... |
| SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 | 7ML5740-... |
| SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 | 7ML5744-... |
| SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 | 7ML5750-... |
| For applicable back up point level switch - see point level measurement section | |

- 1) Available with Housing/Protection/Cable options E, F, Q, R, and T
- 2) Available with Supplementary electronic option A00 and Indicating/adjustment module options E00, E01
- 3) Available with Supplementary electronics A01, Intrinsically safe approval options (excluding FM) 0A, 0E, 0F, 0T, 1N, 1P, 2A, and 3A
- 4) Available with Centering weight option B00 only
- 5) Available with Centering weight options B01 ... B08 only
- 6) Available with Approval options 0A, 0B, 0J, 0K, 0N, 0R, 0S, 1A, 1C, 1E, 1F, and 1G
- 7) Available only with the same rod, cable and coax diameter in Lengths options
- 8) Available with Version/Material options A, B, C, D, F, G
- 9) Available with Rod Mounted options C01 and C02
- 10) Available with Indicating/adjustment module options E00 and E01
- 11) Available 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
- 22) Available with Supplementary electronic option A00, SIL electronics
- 23) Available with Approval options 0A, 0H, 0K, 0R, 0S, 0U, 1A, 1C, 1D, 1E, 1F, 1H, 1N, 1P, and 1R
- 24) Available with housings/protection/cable options E, F, L, M and P
- 25) Available with supplementary electronic option A00
- 26) Available with Indicating/adjustment module options E00, E01
- 27) Not available with Indicating/adjustment module option E02
- 28) Available with Housing protection options D, F, M, and R
- 29) Available with Version/Material A, B, C, D, and E
- 30) Accuracy is application dependent, please consult factory
- 31) Not available with Supplementary electronic option A01
- 32) Available with Housing/protection options W and Y
- 33) Available with Housing/protection options X and J
- 34) Available with Electronics options 0, 2, and 5
- 35) Available with Version/Material G and Electronics option 2
- 36) Please pick Y05, Y06, or Y07 when you pick Probe/version material G
- 37) Not available with Housing options A and B
- 38) Available with Approval option 0A only

Note: Please consult manual for further details.

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. |
|--|-----------------|
| SITRANS LG Remote Interface | 7ML5840- |
| | 0 |
| ↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal. | |
| Approval | |
| For Ex-free area | 0 A |
| ATEX II 1G, 2G, Ex ia IIC T6 Ga, Gb | 0 C |
| ATEX II 2G, Ex d IIC T6 Gb ¹⁾ | 0 E |
| IEC Ex ia IIC T6 Ga, Gb | 0 F |
| IEC Ex d IIC T6 Gb ¹⁾ | 0 G |
| CSA (NI) Class I, Div. 2, Groups A, B, C, D; (DIP) Class II, III, Div. 1, Groups E, F, G | 0 H |
| CSA (IS) Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G | 0 J |
| CSA (XP) Class I, Div. 1, Groups A, B, C, D ¹⁾ | 0 K |
| INMETRO Ex ia IIC T6 Ga, Gb | 0 L |
| INMETRO Ex d IIC T6 Gb ¹⁾ | 0 M |
| Shipping Approval (DNV/GL) ⁶⁾ | 0 N |
| Electronics | |
| Digital (I ² C communication) | A |
| Housing | |
| Plastic ²⁾⁴⁾ | 0 |
| Aluminum ³⁾⁵⁾ | 1 |
| Stainless Steel (precision casting) ³⁾⁵⁾ | 2 |
| Housing protection | |
| IP66/IP67 NEMA 4X | 0 |
| IP66/IP68 NEMA 6P (0.2 bar) | 1 |
| Cable entry | |
| M20 x 1.5/ Blind plug | 3 |
| ½" NPT/ Blind plug | 5 |
| Display | |
| Without | A |
| Mounted | B |
| Mounting | |
| For wall mounting with Aluminum or stainless steel housing | A |
| For carrier rail and wall mounting with plastic housing | B |
| For carrier rail with Aluminum or stainless steel housing | C |
| For tube mounting (29 ... 60 mm) including mounting material | D |
| Certificates | |
| None | 0 |
| 3.1 Certificate/Instrument with test data | 1 |
| Quality and Test plan | 2 |



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

| Selection and Ordering data | Article No. |
|---|-----------------|
| SITRANS LG Replacement Probes | 7ML5841- |
| | 0 |
| ↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal. | |
| Instrument | |
| LG240 ⁴⁾⁵⁾ | 0 |
| LG250 ⁶⁾ | 1 |
| LG260 ⁷⁾ | 2 |
| LG270 ⁹⁾¹⁰⁾ | 3 |
| Probe Type | |
| Exchangeable cable ø 2 mm with gravity weight/316 ¹⁾¹¹⁾ | AA |
| Exchangeable cable ø 2 mm center weight/316 ²⁾¹¹⁾ | AC |
| Exchangeable cable ø 4 mm without weight/316 ¹⁾¹¹⁾ | AD |
| Exchangeable cable ø 4 mm with gravity weight/316 ¹⁾¹¹⁾ | AE |
| Exchangeable cable ø 4 mm with center weight/316 ²⁾¹¹⁾ | AG |
| Exchangeable cable ø 6 mm with gravity weight/316 ¹⁾⁸⁾¹¹⁾ | AH |
| Exchangeable rod ø 8 mm/316L ¹⁾ | AP |
| Exchangeable rod ø 8 mm/1.4435 (acc. to Basle Standard) ¹⁾ | AQ |
| Exchangeable rod ø 12 mm/316L ¹⁾ | AU |
| Exchangeable rod ø 16 mm/316L ¹⁾ | AW |
| Process fitting | |
| Thread to 1 1/2 inch | 0 |
| Thread from 2 inch | 1 |
| Flange less than DN 50 or 2 inch | 2 |
| Flange greater or equal to DN 50 or 2 inch or hygienic fitting (not for safety ingold 25 x 46 mm) | 3 |
| Dimension centering weight | |
| Without | 0 |
| ø 40 mm/30 mm | 1 |
| ø 45 mm/30 mm (for 2 inch tubes) | 2 |
| ø 75 mm/30 mm (for 3 inch tubes) | 3 |
| ø 95 mm/30 mm (for 4 inch tubes) | 4 |
| ø 1.57 inch/1.18 inch (for 2 inch Schedule 160) | 5 |
| ø 1.77 inch/1.18 inch (for 2 inch Schedule 40/80) | 6 |
| ø 2.95 inch/1.18 inch (for 3 inch Schedule 10/40) | 7 |
| ø 3.74 inch/1.18 inch (for 4 inch Schedule 80) | 8 |
| Certificates | |
| Without | 0 |
| 2.2 Material certificate | 1 |
| 3.1 Material certificate | 2 |
| Lengths | |
| <u>Rod ø 8 mm</u> | |
| 300 ... 1 000 mm (11.81 ... 39.37 inch) | AA |
| 1 001 ... 2 000 mm (39.41 ... 78.74 inch) | AB |
| 2 001 ... 3 000 mm (78.78 ... 118.11 inch) | AC |
| 3 001 ... 4 000 mm (118.15 ... 157.48 inch) | AD |
| 4 001 ... 5 000 mm (157.52 ... 196.85 inch) | AE |
| 5 001 ... 6 000 mm (196.89 ... 236.22 inch) | AF |

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

| Selection and Ordering data | Article No. | Selection and Ordering data | Article No. |
|--|---|---|---|
| SITRANS LG Replacement Probes | 7ML5841- | SITRANS LG Replacement Probes | 7ML5841- |
| |  0 | |  0 |
| <u>Rod ø 12 mm</u> | | <u>Cable Lengths ø 6 mm/316</u> | |
| 300 ... 1 000 mm (11.81 ... 39.37 inch) | AG | 501 ... 1 000 mm (19.72 ... 39.37 inch) | BM |
| 1 001 ... 2 000 mm (39.41 ... 78.74 inch) | AH | 1 001 ... 5 000 mm (39.41 ... 196.85 inch) | BN |
| 2 001 ... 3 000 mm (78.78 ... 118.11 inch) | AJ | 5 000 ... 10 000 mm (196.89 ... 393.70 inch) | BP |
| 3 001 ... 4 000 mm (118.15 ... 157.48 inch) | AK | 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | BQ |
| 4 001 ... 5 000 mm (157.52 ... 196.85 inch) | AL | 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | BR |
| 5 001 ... 6 000 mm (196.89 ... 236.22 inch) | AM | 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | BS |
| <u>Rod ø 16 mm</u> | | 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | BT |
| 300 ... 1 000 mm (11.81 ... 39.37 inch) | AN | 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | BU |
| 1 001 ... 2 000 mm (39.41 ... 78.74 inch) | AP | 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | BV |
| 2 001 ... 3 000 mm (78.78 ... 118.11 inch) | AQ | 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | BW |
| 3 001 ... 4 000 mm (118.15 ... 157.48 inch) | AR | 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) | BX |
| 4 001 ... 5 000 mm (157.52 ... 196.85 inch) | AS | 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) | BY |
| 5 001 ... 6 000 mm (196.89 ... 236.22 inch) | AT | 55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch) | CA |
| <u>Cable Lengths ø 2 mm and 4 mm/316</u> | | 60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch) | CB |
| 501 ... 1 000 mm (19.72 ... 39.37 inch) | AU | 65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch) | CC |
| 1 001 ... 5 000 mm (39.41 ... 196.85 inch) | AV | 70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch) | CD |
| 5 000 ... 10 000 mm (196.85 ... 393.70 inch) | AW | | |
| 10 001 ... 15 000 mm (393.74 ... 590.55 inch) | AX | | |
| 15 001 ... 20 000 mm (590.59 ... 787.40 inch) | AY | | |
| 20 001 ... 25 000 mm (787.44 ... 984.25 inch) | BA | | |
| 25 001 ... 30 000 mm (984.29 ... 1 181.10 inch) | BB | | |
| 30 001 ... 35 000 mm (1 181.14 ... 1 377.95 inch) | BC | | |
| 35 001 ... 40 000 mm (1 377.99 ... 1 574.80 inch) | BD | | |
| 40 001 ... 45 000 mm (1 574.84 ... 1 771.65 inch) | BE | | |
| 45 001 ... 50 000 mm (1 771.69 ... 1 968.50 inch) | BF | | |
| 50 001 ... 55 000 mm (1 968.54 ... 2 165.35 inch) | BG | | |
| 55 001 ... 60 000 mm (2 165.39 ... 2 362.20 inch) | BH | | |
| 60 001 ... 65 000 mm (2 362.24 ... 2 559.06 inch) | BJ | | |
| 65 001 ... 70 000 mm (2 559.09 ... 2 755.91 inch) | BK | | |
| 70 001 ... 75 000 mm (2 755.94 ... 2 952.76 inch) | BL | | |
| | | Selection and Ordering data | Order code |
| | | <i>Further designs</i> | |
| | | Please add "-Z" to Article No. and specify Order code(s). | |
| | | Enter the total insertion length in plain text description | Y01 |
| | | Total length: Enter the total length of rigid part (range 100 ... 1 000 mm LG270 limited to 100 mm) (cable versions only) | Y02 |
| | | 1) Available with Dimension centering weight: Without option 0 | |
| | | 2) Available with Dimension centering weight: option 1 ... 8 | |
| | | 3) All Probe types are only available with corresponding Probe lengths | |
| | | 4) Available with Probe type option AQ | |
| | | 5) Available with Process fitting options 2 and 3 | |
| | | 6) Not available with Probe type options AQ and AW | |
| | | 7) Available with Probe type options AE, AH, and AW | |
| | | 8) Not available with Process fitting option 2 | |
| | | 9) Available with Probe type options AA, AC, AE, AG, and AW | |
| | | 10) Available with Process fittings 0 and 3 | |
| | | 11) Not available with certificate options 1 and 2 | |

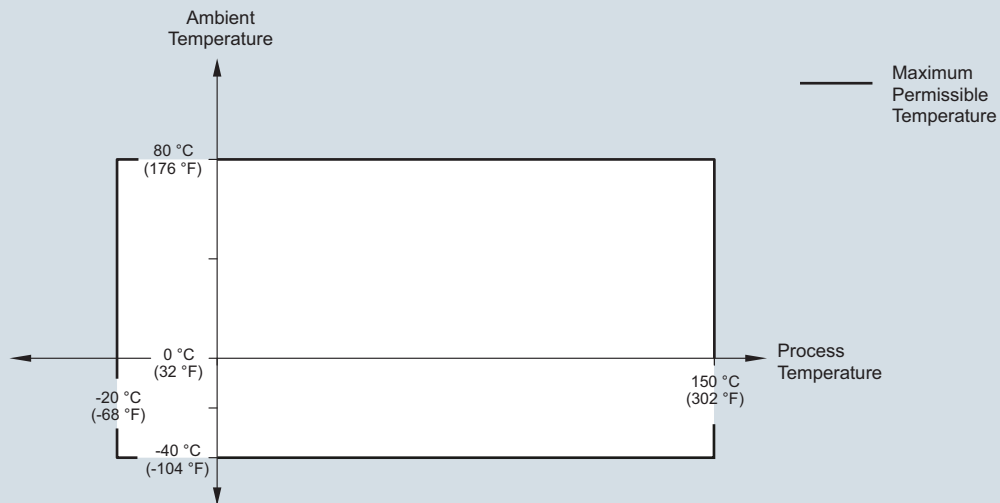
Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

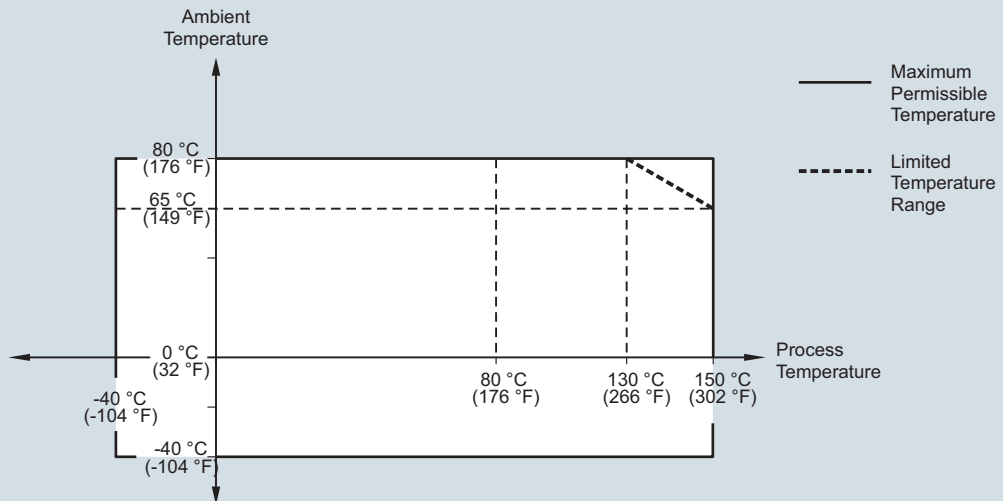
Characteristic curves

SITRANS LG240, Ambient temperature/process temperature, standard version

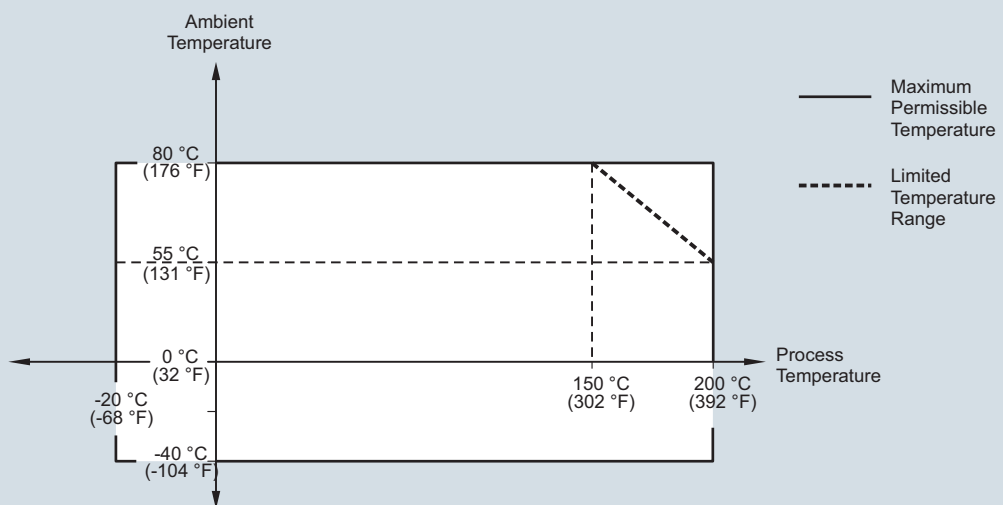


SITRANS LG240, ambient temperature/process temperature curve

SITRANS LG250, Ambient temperature/process temperature, standard version



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



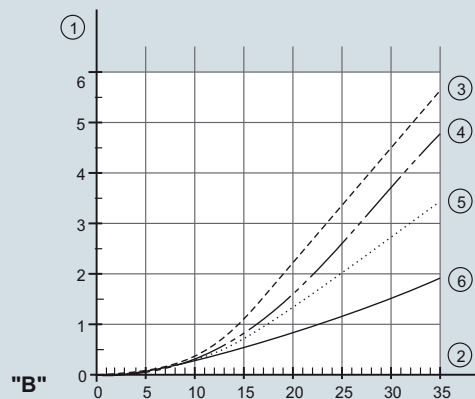
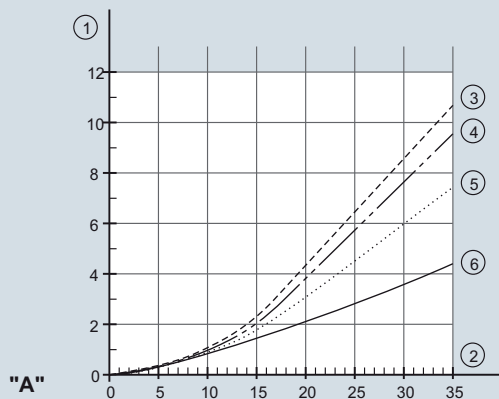
SITRANS LG250, ambient temperature/process temperature curves

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

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



A. Cereals

B. Plastic granules

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

2. Cable length in m

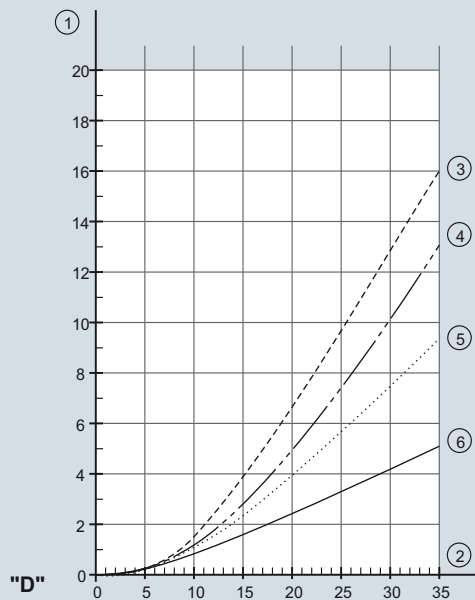
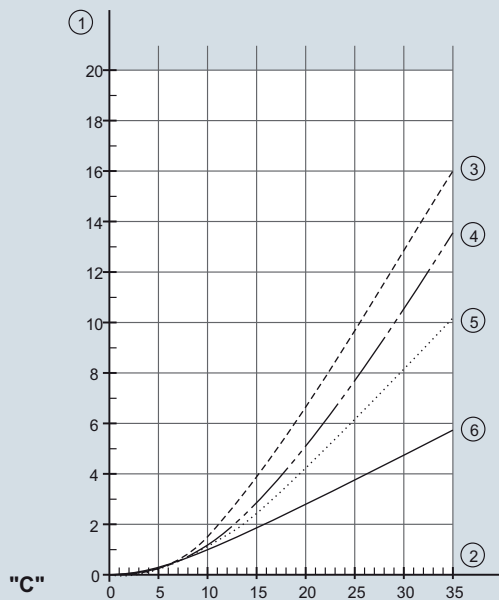
3. Vessel diameter 12 m (39.37 ft)

4. Vessel diameter 9 m (29.53 ft)

5. Vessel diameter 6 m (19.69 ft)

6. Vessel diameter 3 m (9.843 ft)

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



C. Sand

D. Cement

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

2. Cable length in m

3. Vessel diameter 12 m (39.37 ft)

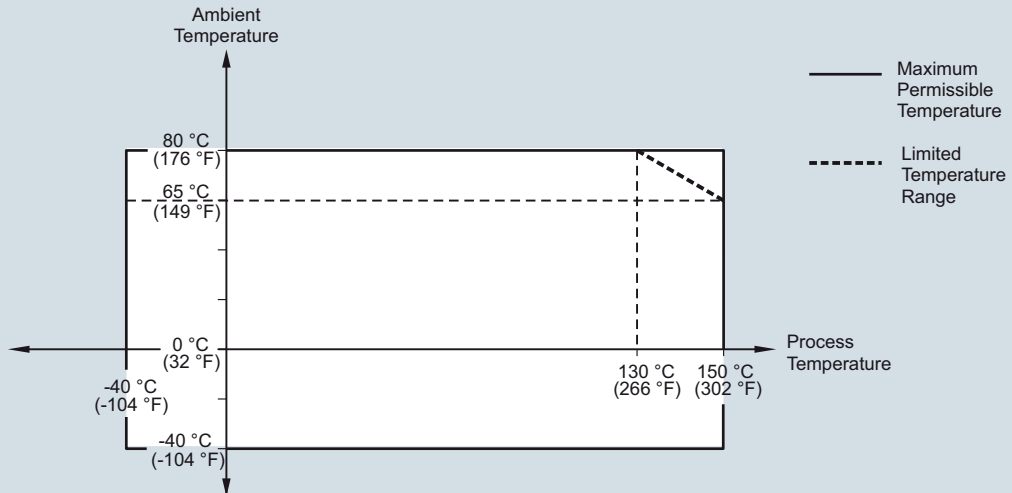
4. Vessel diameter 9 m (29.53 ft)

5. Vessel diameter 6 m (19.69 ft)

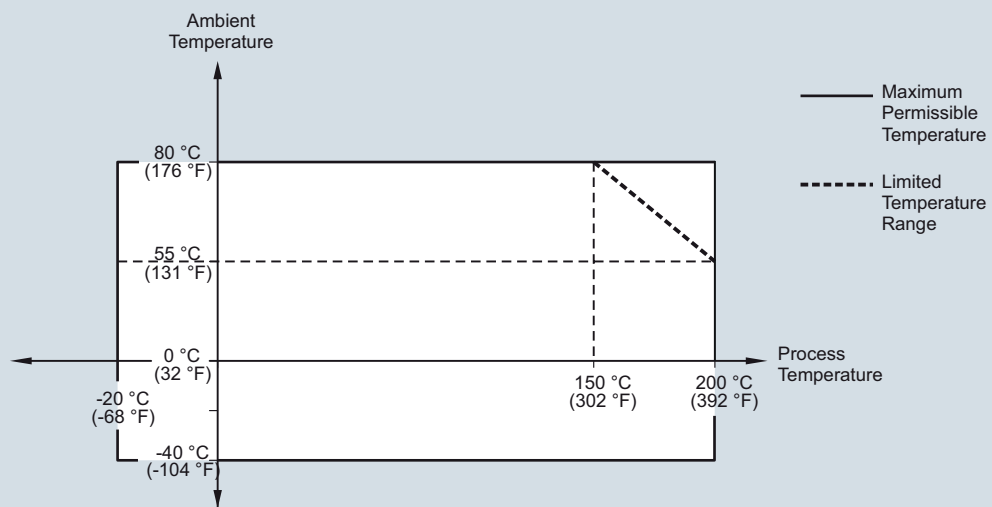
6. Vessel diameter 3 m (9.843 ft)

SITRANS LG260, maximum tensile load curves

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



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



SITRANS LG260, ambient temperature/process temperature curves

Level Measurement

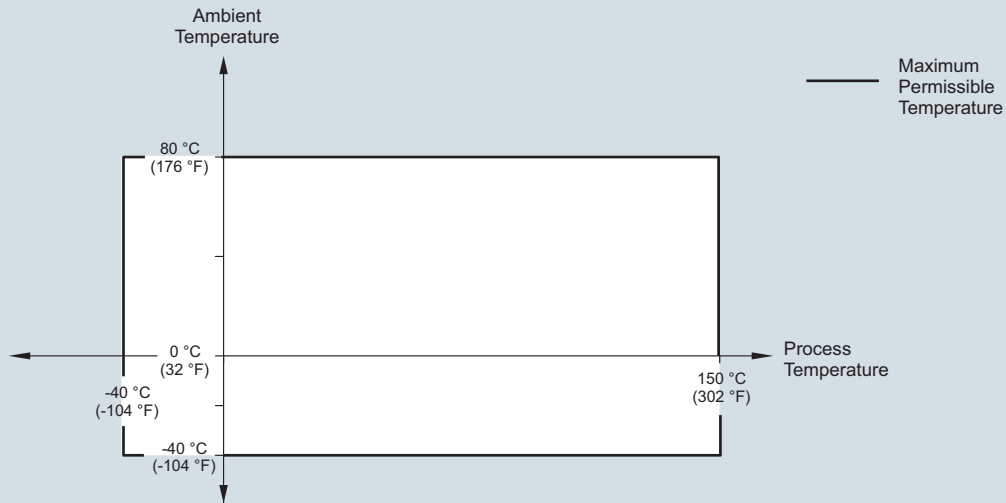
Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

SITRANS LG260, Ambient temperature/process temperature, standard version

Cable version with \varnothing 6 mm (0.236 inch)

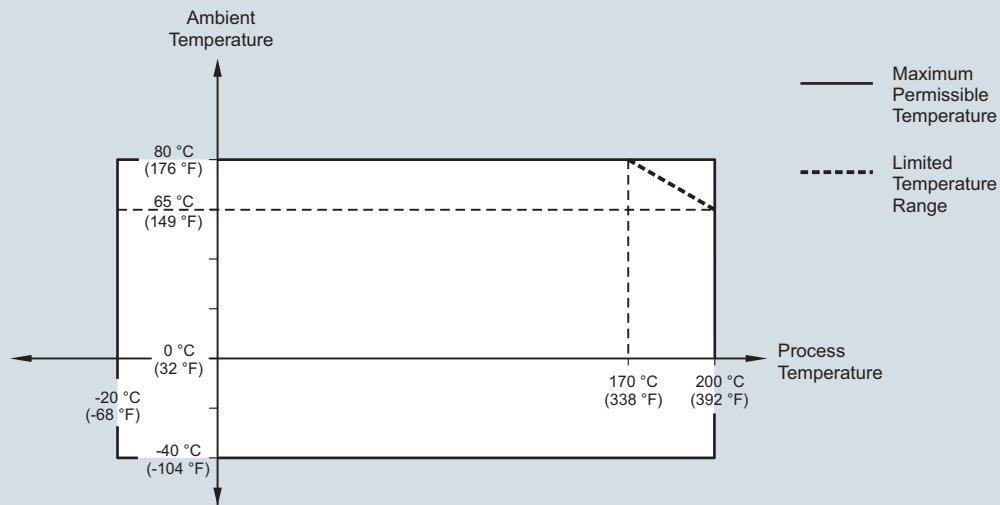
Cable version, PA coated with \varnothing 11 mm (0.433 inch)



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

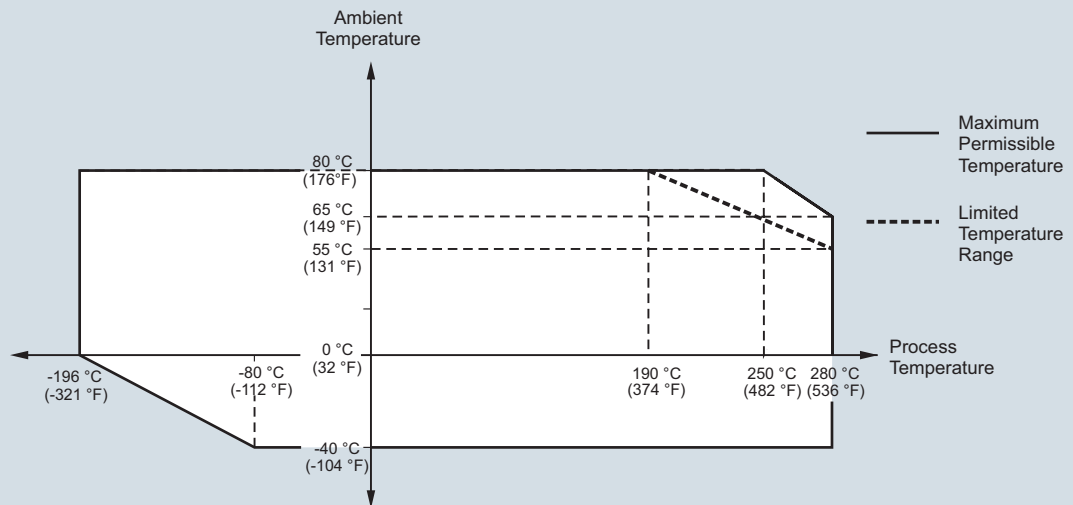
Cable version with \varnothing 6 mm (0.236 inch)

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

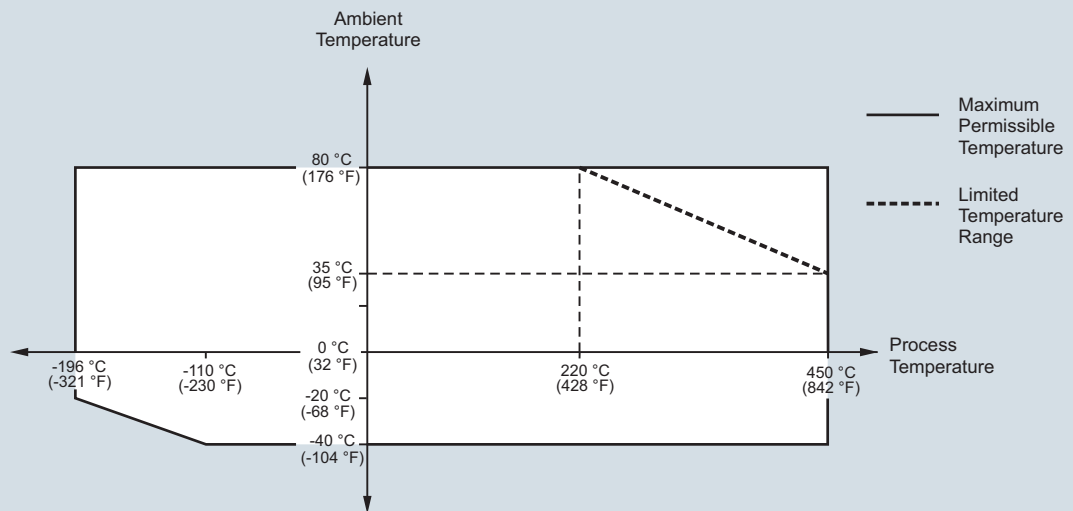


SITRANS LG260, ambient temperature/process temperature curves

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



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



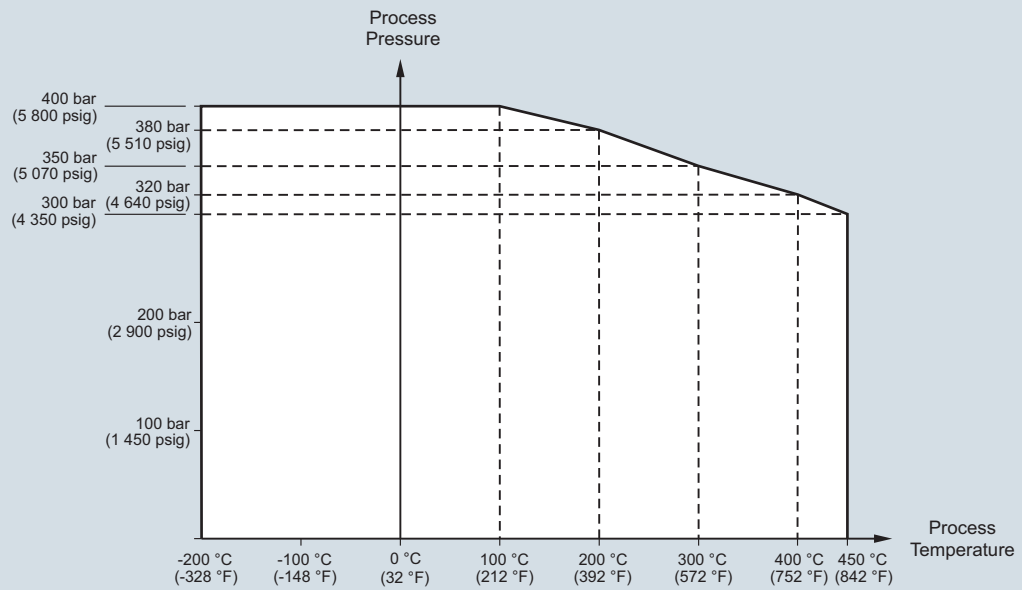
SITRANS LG270, ambient temperature/process temperature curves

Level Measurement

Continuous level measurement - Guided wave radar transmitters

SITRANS LG series

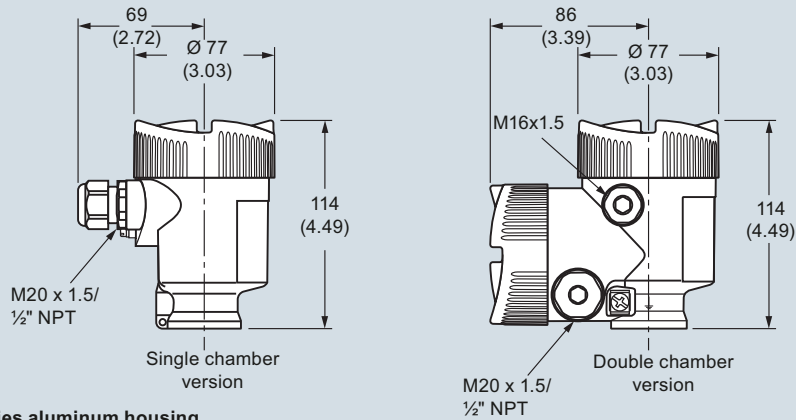
SITRANS LG270, Process pressure/process temperature (-196 ... +450 °C/-321 ... +842 °F version)



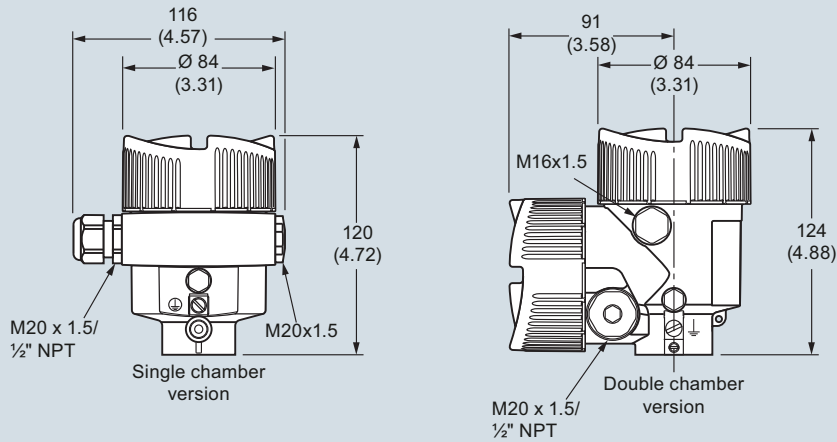
SITRANS LG270, process pressure/process temperature curve

Dimensional drawings

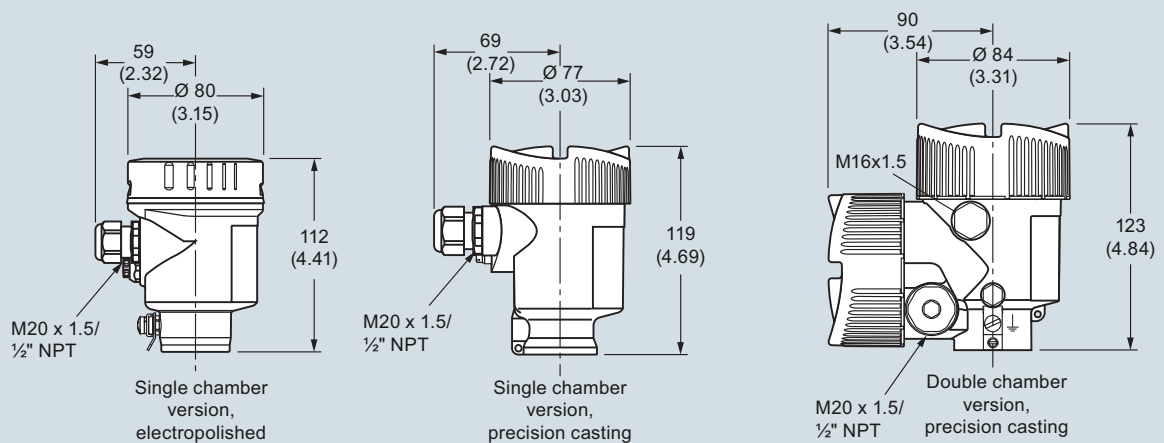
SITRANS LG Series plastic housing



SITRANS LG Series aluminum housing



SITRANS LG Series stainless steel housing



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

SITRANS LG series, dimensions in mm (inch)

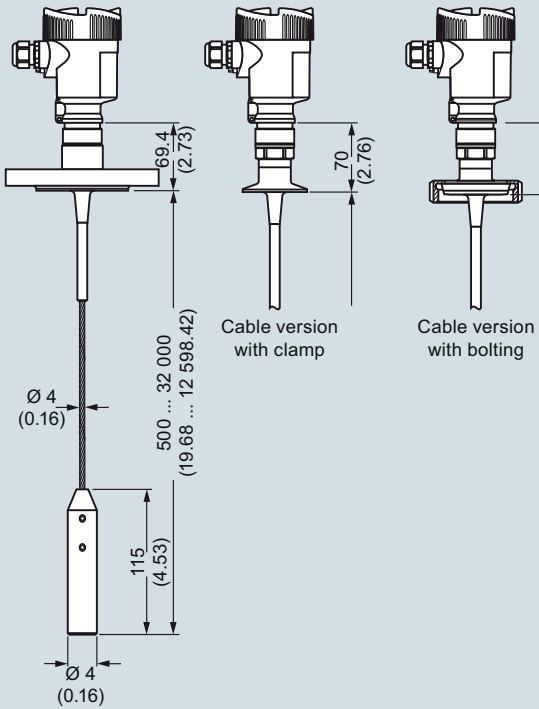
Level Measurement

Continuous level measurement - Guided wave radar transmitters

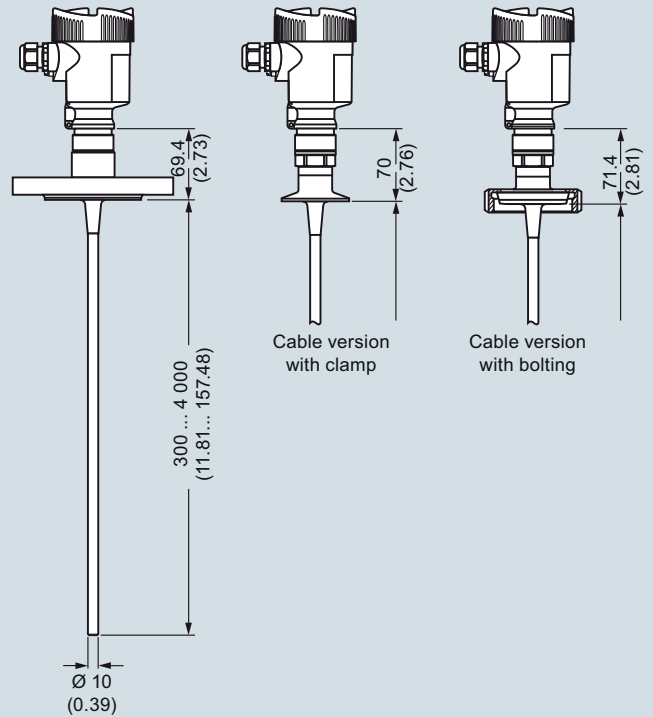
SITRANS LG series

SITRANS LG240

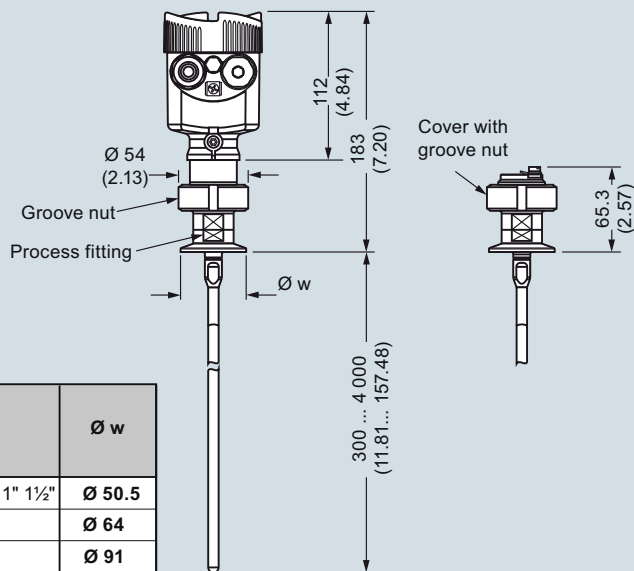
Cable version Ø 4 (0.157), PFA coated



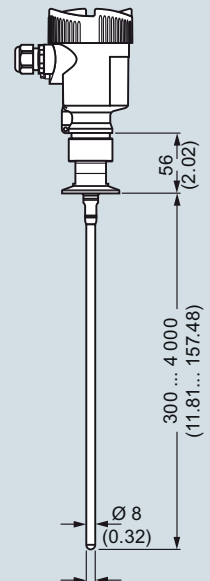
Rod version Ø 10 (0.394), PFA coated



Autoclaved version



Rod version Ø 8 (0.315), polished

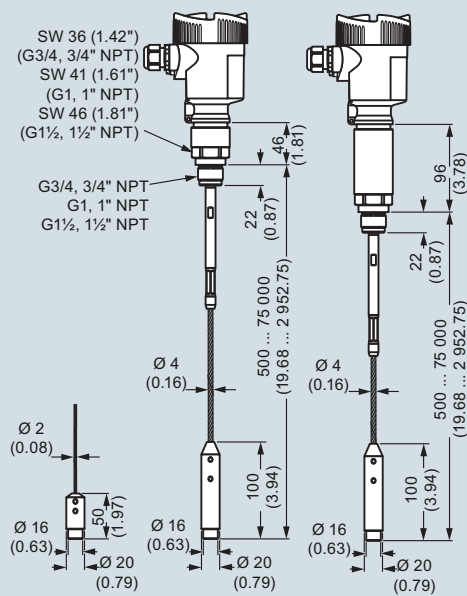


| | Ø w |
|-------------------------------|--------|
| DIN DN 25 DN 32 DN 40/ 1" 1½" | Ø 50.5 |
| DIN DN 50/ 2" | Ø 64 |
| DIN DN 65/ 3" | Ø 91 |

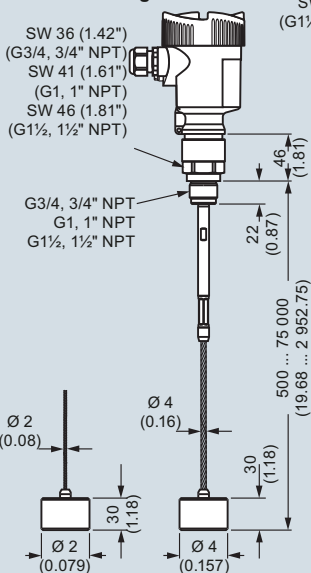
SITRANS LG240, dimensions in mm (inch)

SITRANS LG250

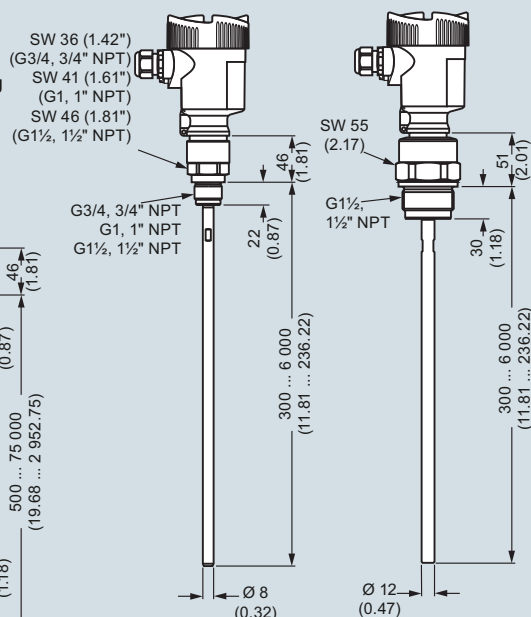
Cable version with gravity weight



Cable version with centering weight



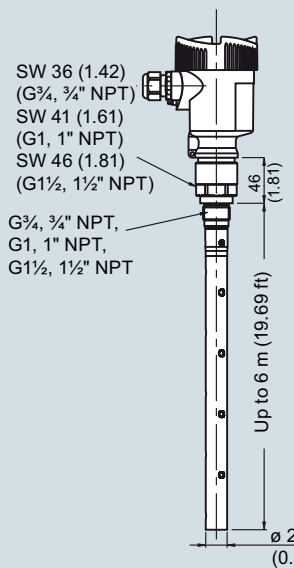
Rod version



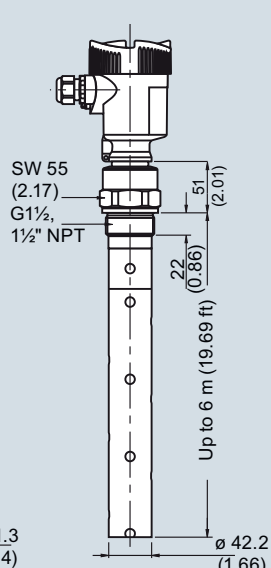
SITRANS LG250, dimensions in mm (inch)

SITRANS LG250, coax version

**Coaxial version
ø 21.3 (0.839)**



**Coaxial version
ø 42.2 (1.661)**



SITRANS LG250, dimensions in mm (inch)

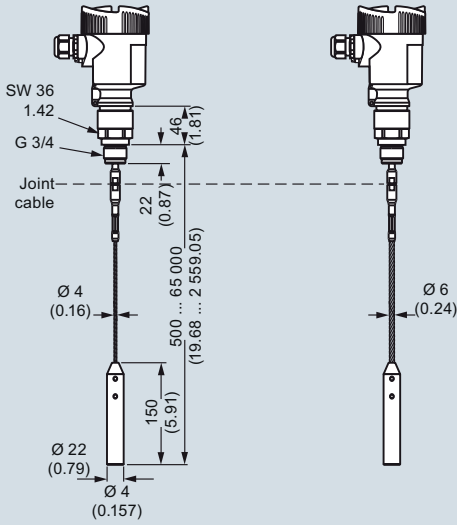
Level Measurement

Continuous level measurement - Guided wave radar transmitters

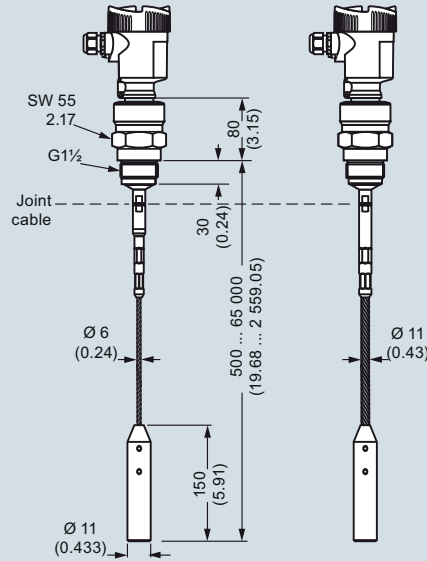
SITRANS LG series

SITRANS LG260

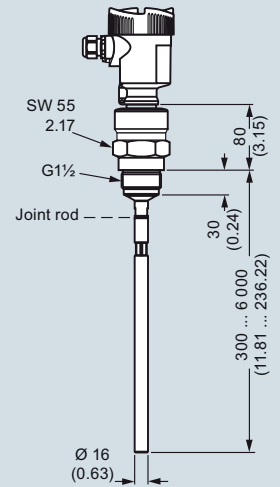
Cable version Ø 4 (0.157)/ Ø 6 (0.236)- PA coated



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



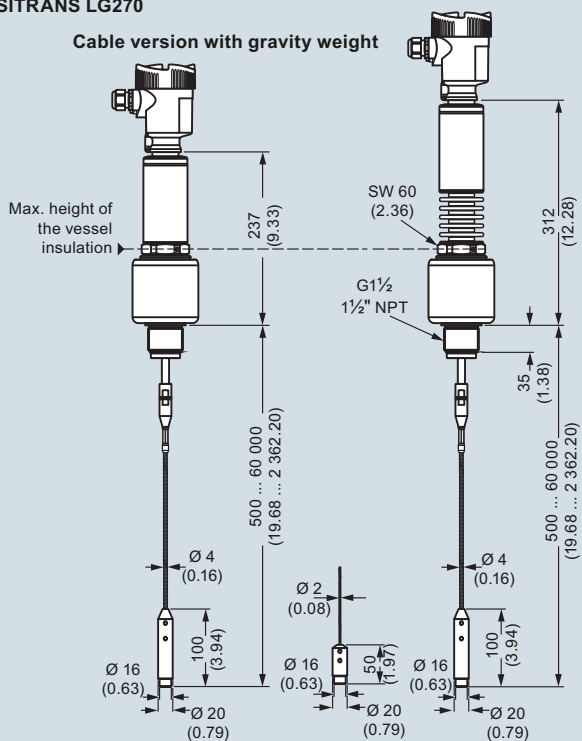
Rod version Ø 16 (0.63)



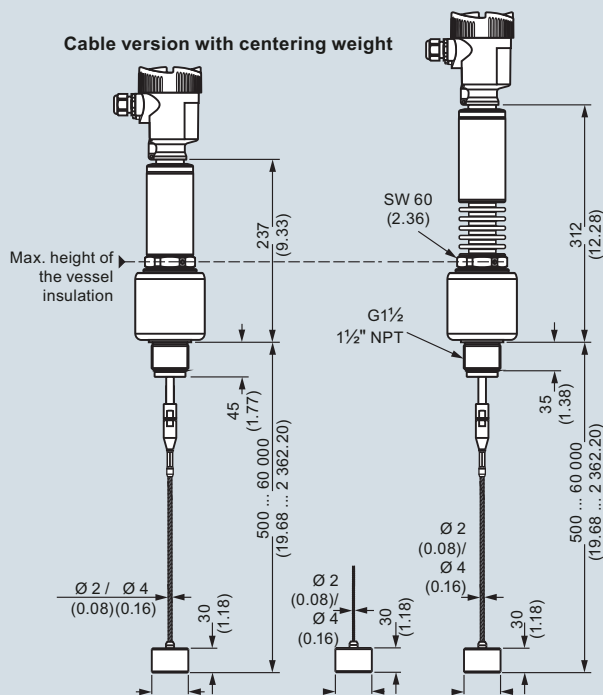
SITRANS LG260, dimensions in mm (inch)

SITRANS LG270

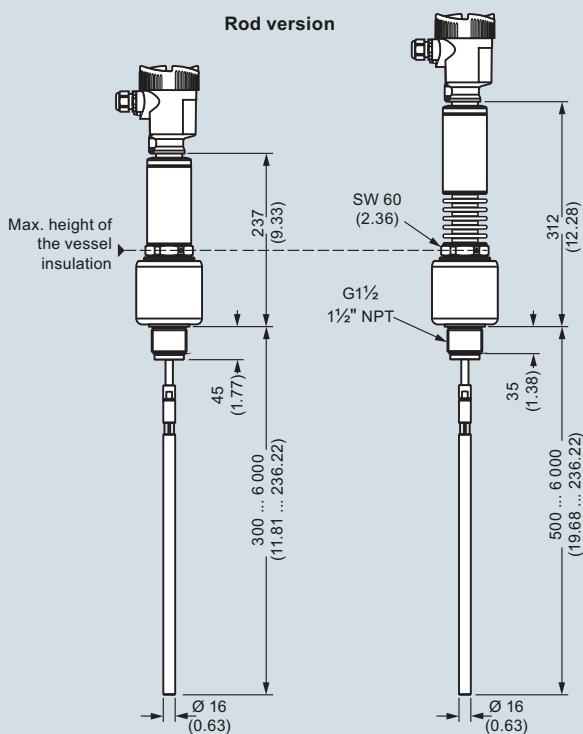
Cable version with gravity weight



Cable version with centering weight



Rod version



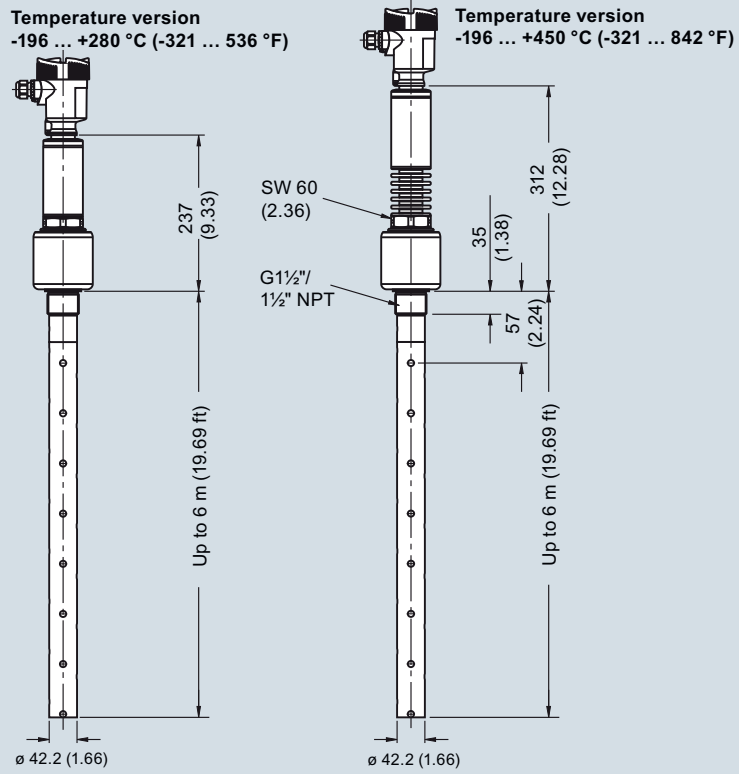
SITRANS LG270, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Guided wave radar transmitters

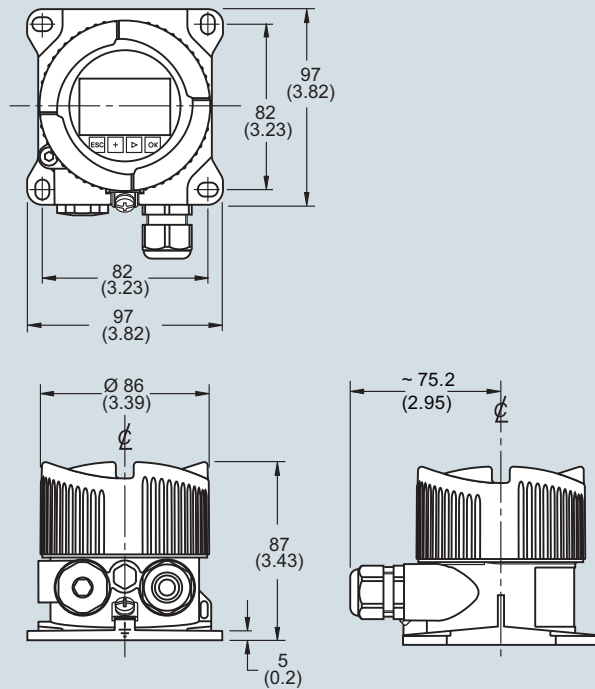
SITRANS LG series

SITRANS LG270, coax version

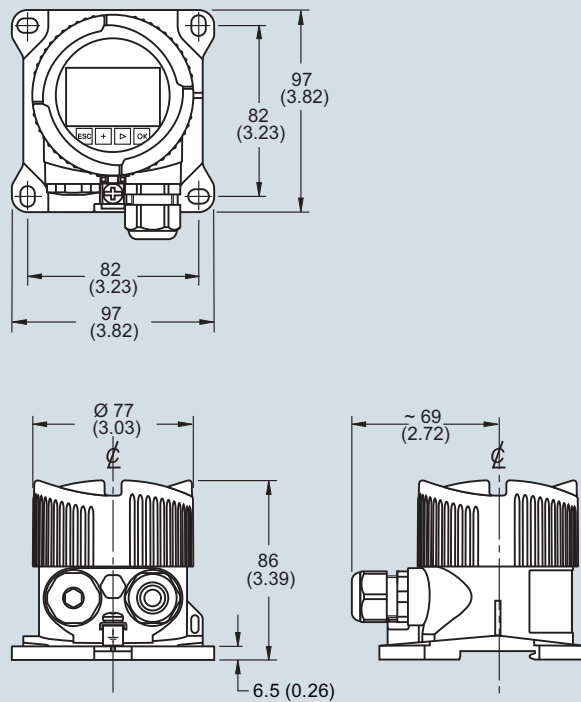


SITRANS LG270, dimensions in mm (inch)

SITRANS LG remote interface, aluminum housing



SITRANS LG remote interface, plastic housing



SITRANS LG remote interface, dimensions in mm (inch)

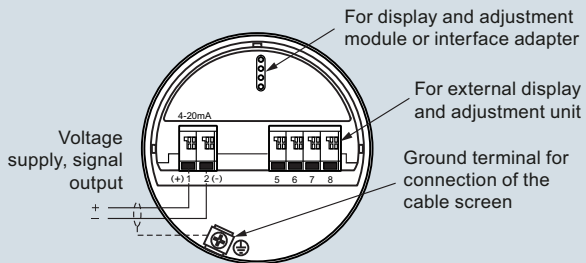
Level Measurement

Continuous level measurement - Guided wave radar transmitters

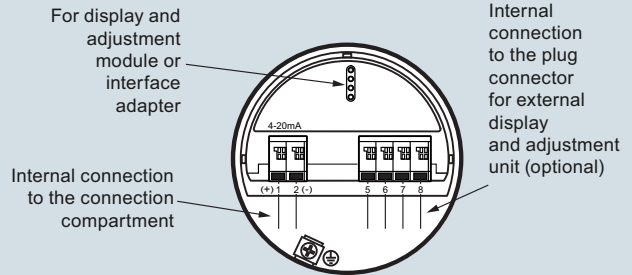
SITRANS LG series

Schematics

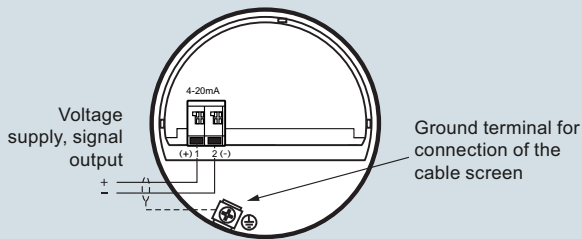
2-wire HART electronic option, electronics and connection compartment, single chamber housing



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



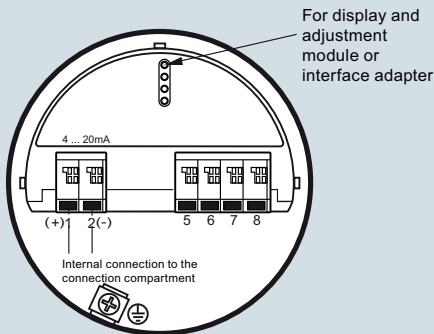
2-wire HART electronic option, connection compartment, Ex-d-ia double chamber housing



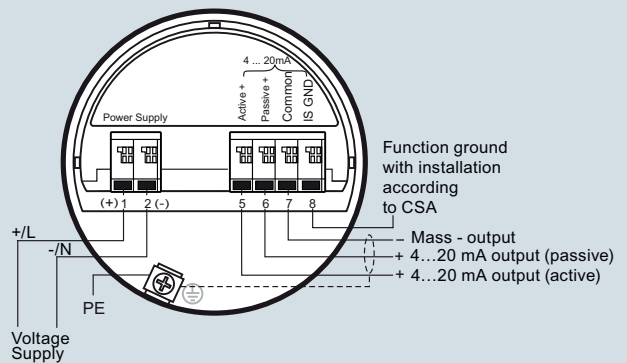
Note: All 2-wire HART connections and electronics are also available with SIL qualification.

SITRANS LG series connections

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

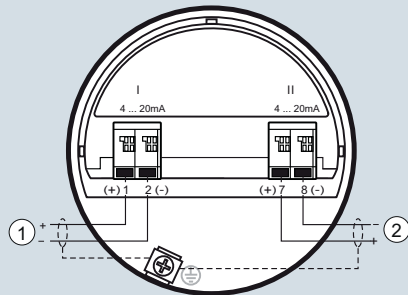


4-wire electronic option, connection compartment, double chamber housing with mains voltage



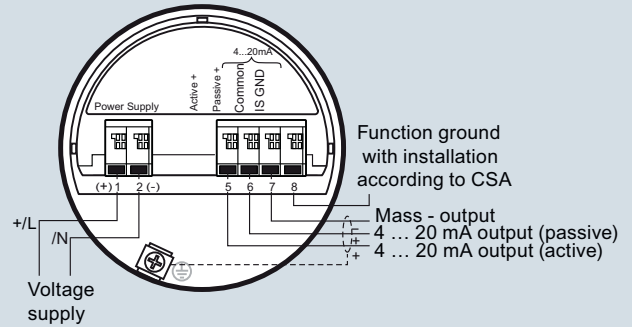
SITRANS LG series connections

Supplementary electronics



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

Connection compartment with low voltage



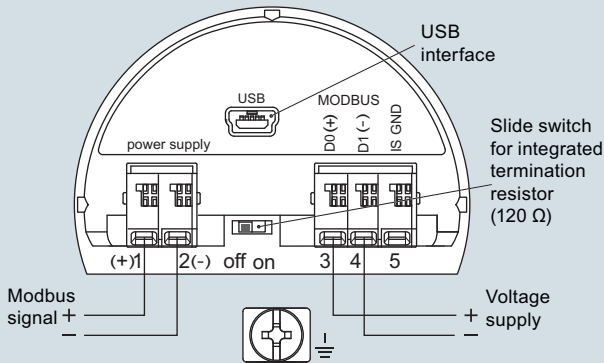
Function ground with installation according to CSA

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

+/L /N
Voltage supply

SITRANS LG series connections

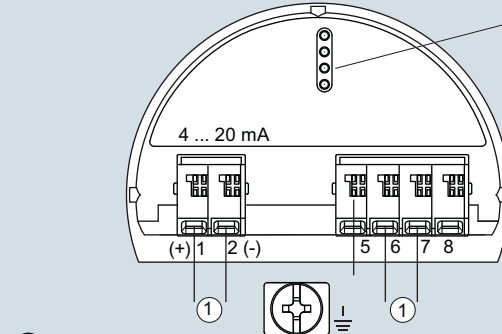
Modbus electronic option, connection compartment



Modbus signal +
- -

Voltage supply +
- -

Modbus electronic option, electronics compartment, double chamber housing

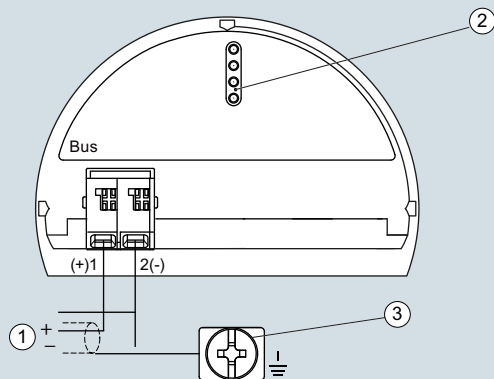


For display and adjustment module or interface adapter

- ① Internal connection to the connection compartment

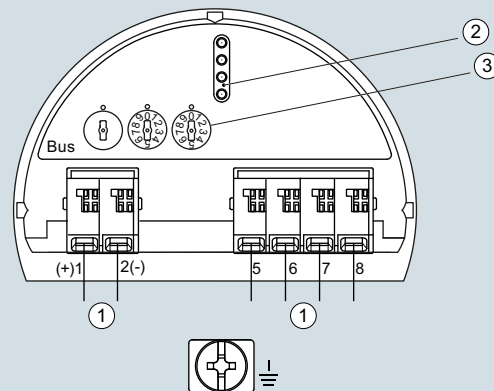
SITRANS LG series connections

PROFIBUS electronic option, connection compartment, double chamber housing



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

PROFIBUS electronic option, electronics compartment, double chamber housing



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

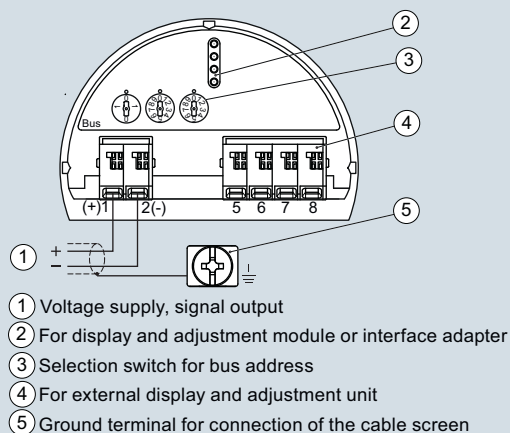
LG series connections

Level Measurement

Continuous level measurement - Guided wave radar transmitters

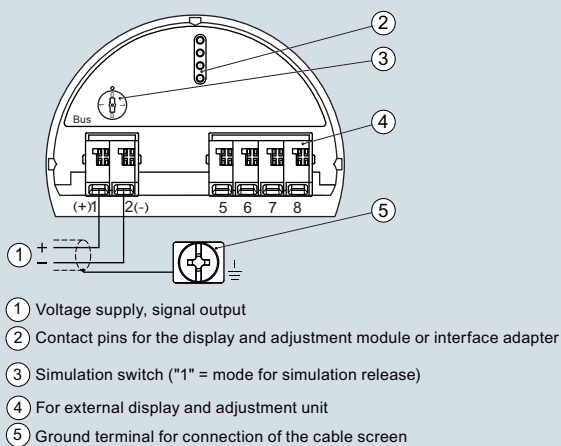
SITRANS LG series

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



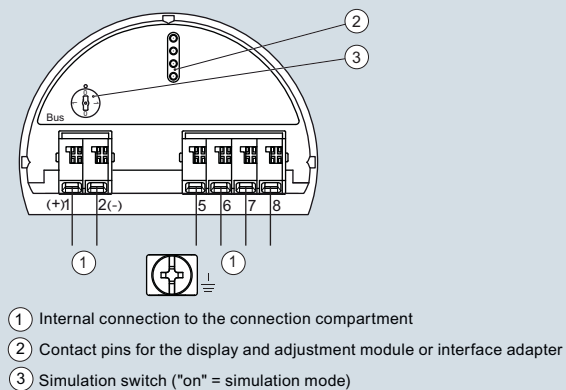
LG series connections

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



LG series connections

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



LG series connections

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

