Continuous level measurement - Radar transmitters

SITRANS LR260

Overview



SITRANS LR260 is a 2-wire 25 GHz pulse radar level transmitter for continuous monitoring of solids and liquids in storage vessels including extreme levels of dust and high temperatures, to a range of 30 m (98.4 ft).

Benefits

- Graphical local user interface (LUI) makes operation simple with plug-and-play setup using the intuitive Quick Start Wizard
- · LUI displays echo profiles for diagnostic support
- 25 GHz high frequency allows for small horn antennas mounted easily in nozzles
- · Communication using HART or PROFIBUS PA
- Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions
- Programming using infrared Intrinsically Safe handheld programmer or SIMATIC PDM

Application

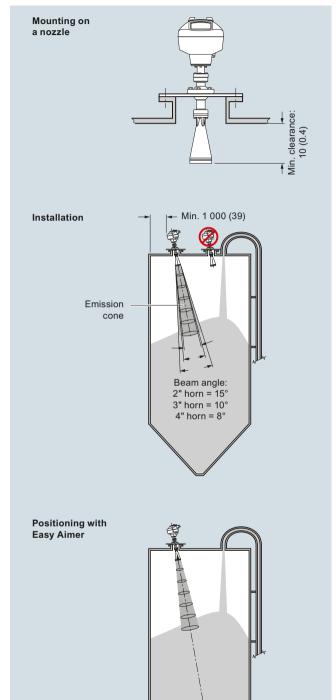
SITRANS LR260 includes a graphical local user interface (LUI) that improves setup and operation using an intuitive Quick Start Wizard, and echo profile displays for diagnostic support. Startup is easy using the Quick Start wizard with a few parameters required for basic operation.

SITRANS LR260's unique design allows safe and simple programming using the Intrinsically Safe handheld programmer without having to open the instrument's lid.

SITRANS LR260 measures virtually any solids material to a range of 30 m (98.4 ft).

 Key Applications: cement powder, plastic powder/pellets, grain, flour, coal, solids and liquids bulk storage vessels, and other applications

Configuration



SITRANS LR260 installation, dimensions in mm (inch)

Design

Level Measurement

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Technical specifications

Mode of operation	
Measuring principle	Pulse radar level measurement
Frequency	K-band (25.0 GHz)
Minimum detectable distance	0.05 m (2 inch) from end of horn
Maximum measuring range ¹⁾	
Solids	• 2" horn: 10 m (32.8 ft)
	• 3" horn: 20 m (65.6 ft)
	• 4" horn: 30 m (98.4 ft)
Liquids	• 2" horn: 20 m (65.6 ft)
	• 3" horn: 30 m (98.4 ft)
	• 4" horn: 30 m (98.4 ft)
Output - HART	
Power	4 20 mA (± 0.02 mA accuracy)
Fail signal	Nominal 24 V DC (max. 30 V DC)
Load	3.6 mA 23 mA; or last value 230 600 Ω
Output - PROFIBUS PA	• Per IEC 61158-2
	• 15.0 mA
	Profile version 3.01, Class B
Performance (according to	
reference conditions IEC60770-1)	05 (4: 1)(
Maximum measured error (including hysteresis and non-repeatability)	25 mm (1 inch) from minimum detectable distance to 300 mm
Trysteresis and non repeatability)	(11.8 inch)
	 Remainder of range = 6 mm
	(0.23 inch) or 0.05 % of spa
	(whichever is greater)
Rated operating conditions	
Installation conditions	
Location	Indoor/outdoor
Ambient conditions (enclosure)	
Ambient temperature	-40 +80 °C (-40 +176 °F)
Installation categoryPollution degree	1
	7
Medium conditions	
Dielectric constant ϵ_{r}	$\epsilon_r > 1.6$, antenna and application dependent
Process temperature	-40 +200 °C (-40 +392 °F)
Process pressure	
	• 0.5 bar g (7.25 psi g) maximum
	• 3 bar g (43.5 psi g) optional with
	80 °C (176 °F) temperature max

Design	
Enclosure	
 Construction 	Aluminum, polyester powder-coated
Conduit entry	2 x M20 x 1.5 or 2 x ½" NPT
Degree of protection	Type 4X/NEMA 4X, Type 6/ NEMA 6, IP67, IP68
Weight	< 8.14 kg (17.9 lb) including 4" flange
	and standard Easy Aimer with 4" horn antenna
Display (local)	Graphic LCD, with bar graph repre-
, (,	senting level
Flange and horn (easy aimer model)	
Material	304 stainless steel
Horn antenna	2" horn
	3" horn
	4" horn
Process connections	
 Universal flanges ²⁾ 	2 inch/50 mm, 3 inch/80 mm, 4 inch/
Mechanical	100 mm, 6 inch/150 mm
(Threaded Connection model)	
 Threaded connection 	2" NPT (ASME B1.20.1),
	R (BSPT, EN 10226-1) or, G (BSPP, EN ISO 228-1)
Materials	316L/1.4404 or 316L/1.4435 stainless
Waterials	steel PTFE emitter
Certificates and approvals	
Certificates and approvals	CSAvara CE EM
General	CSA _{US/C} , CE, FM Furone (R&TTE) FCC. Industry
• •	CSA _{US/C} , CE, FM Europe (R&TTE), FCC, Industry Canada, RCM
General	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1,
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups F. F. G. Class III
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1,
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga,
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1,
General Radio	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G
General Radio Hazardous	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G
General Radio Hazardous Programming Intrinsically Safe Siemens handheld	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model:
Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga
Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C
Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C Ta = -20 +50 °C CSA/FM Class I, II, and III, Div. 1,
Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C Ta = -20 +50 °C
Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C Ta = -20 +50 °C CSA/FM Class I, II, and III, Div. 1, Groups A, B, C, D, E, F, G, T6
General Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer • Approvals for handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C Ta = -20 +50 °C CSA/FM Class I, II, and III, Div. 1, Groups A, B, C, D, E, F, G, T6 Ta = 50 °C
General Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer • Approvals for handheld programmer	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C Ta = -20 +50 °C CSA/FM Class I, II, and III, Div. 1, Groups A, B, C, D, E, F, G, T6 Ta = 50 °C HART communicator 375 SIMATIC PDM Graphic local user interface including
Radio Hazardous Programming Intrinsically Safe Siemens handheld programmer • Approvals for handheld programmer Handheld communicator PC	Europe (R&TTE), FCC, Industry Canada, RCM CSA/FM Class II, Div. 1, Groups E, F, G, Class III ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G SABS ARP0108 Ex ia IIC T4 Ga Infrared receiver IS model: ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C Ta = -20 +50 °C CSA/FM Class I, II, and III, Div. 1, Groups A, B, C, D, E, F, G, T6 Ta = 50 °C HART communicator 375 SIMATIC PDM

¹⁾ From sensor reference point
2) Universal flange mates with EN 1092-1 (PN 16)/ASME B16.5 (150 lb)/
JIS 2220 (10K) bolt hole pattern

Continuous level measurement - Radar transmitters

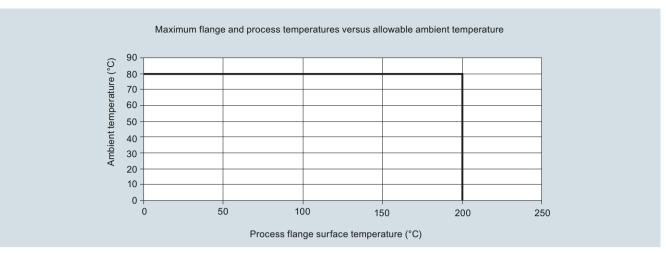
SITRANS LR260

			SITRANS LR260
Selection and Ordering data	Article No.	Selection and Ordering data	Order code
SITRANS LR260 2-wire, 25 GHz pulse radar level transmitter for continuous monitoring of solids to a range of 30 m (98.4 ft).	7ML5427- 0 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Further designs Please add "-Z" to Article No. and specify Order code(s).	
Order handheld programmer separately Click on the Article No. for the online configura-		Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters); specify in plain text	Y15
tion in the PIA Life Cycle Portal. Process connection		Manufacturer's test certificate: M to DIN 55350.	C11
Universal flat faced flange fits ANSI/DIN/JIS flanges, Easy Aimer with integral (Easy Aimer ball)		Part 18 and to ISO 9000 Inspection Certificate Type 3.1 per EN 10204 ⁴⁾	C12
2 inch/50 mm 3 inch/80 mm 4 inch/100 mm 6 inch/150 mm Threaded connection 2" NPT (ASME B1.20.1) (tapered thread) ¹⁾²⁾⁵⁾ R 2" [(BSPT), EN 10226-1] (tapered thread) ¹⁾²⁾⁵⁾ G 2" [(BSPT), EN ISO 228-1] (parallel thread) ¹⁾²⁾⁵⁾ For custom process connections, contact a local sales person. For more information, please visit http://www.automation.siemens.com/aspa_app.	A B C D E F G Z	Operating Instructions for HART/mA device English German Note: The Operating Instructions should be ordered as a separate line item 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 ATEX Quick Stat and Operating Instructions library.	Article No. 7ML1998-5KE03 A5E34942821
Antenna 2" Horn antenna, fits 50 mm or 2" nozzles ¹⁾ 2" Horn antenna with 100 mm extension ¹⁾ 2" Horn antenna with 200 mm extension ¹⁾ 2" Horn antenna with 500 mm extension ¹⁾ 2" Horn antenna with 1 000 mm extension ¹⁾ 3" Horn antenna, fits 80 mm or 3" nozzles ³⁾ 3" Horn antenna with 100 mm extension ³⁾ 3" Horn antenna with 200 mm extension ³⁾ 3" Horn antenna with 500 mm extension ²⁾ 3" Horn antenna with 1 000 mm extension ²⁾ 4" Horn antenna, fits 100 mm or 4" nozzles	A B C D E F G H J K L	Start and Operating Instructions library. **Operating Instructions for PROFIBUS PA device** English German Note: The Operating Instructions should be ordered as a separate line item 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	7ML1998-5KF03 A5E34957877
4" Horn antenna with 100 mm extension 4" Horn antenna with 200 mm extension 4" Horn antenna with 500 mm extension ²⁾ 4" Horn antenna with 1 000 mm extension ²⁾	M N P Q	Weighing manual DVD containing the ATEX Quick Start and Operating Instructions library. Accessories One metallic cable gland M20 x 1.5,	7ML1930-1AP
For custom antennas, contact a local sales person. For more information, please visit http://www.automation.siemens.com/aspa_app.	Z	rated -40 +80 °C (-40 +176 °F), HART One metallic cable gland M20 x 1.5,	7ML1930-1AQ
Purge (self cleaning) connection No purge connection		rated -40 +80 °C (-40 +176 °F), PROFIBUS PA Handheld programmer, Infrared, Intrinsically Safe	7ML1930-1BK
Purge connection	0	Dust cap, PTFE, for 2 inch/50 mm horn	7ML1930-1DE
Output/communication		Dust cap, PTFE, for 3 inch/75 mm horn	7ML1930-1BL
4 20 mA, HART	0	Dust cap, PTFE, for 4 inch/100 mm horn	7ML1930-1BM
PROFIBUS PA	1	HART modem/USB	7MF4997-1DB
Cable inlet 2 x M20 x 1.5 2 x ½" NPT	A	(for use with a PC and SIMATIC PDM) SITRANS RD100, loop powered display -	7ML5741
Note: Polymeric cable glands will be provided with M20 devices.	В	see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740
Approvals General purpose, CSA _{US/C} , FM, Industry Canada, FCC, CE, R&TTE, RCM	A	SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744
CSA/FM Class II, Div. 1, Groups E, F, G, Class III, Industry Canada, FCC, RCM	В	SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	7ML5750
ATEX II 1D, 1/2D, 2D Ex ta IIIC T100 °C Da, CE, R&TTE, RCM, INMETRO Non-incendive, CSA/FM Class I, Div. 2, Groups A, B, C, D, Industry Canada, FCC, RCM	C D	For applicable back up point level switch - see point level measurement section	
Intrinsically safe, IECEX/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ta IIIC T100 °C Da, R&TTE, RCM Intrinsically safe, CSA/FM Class I, II, III, Div. 1,	E F	Note: Products shipped with plastic cable gland, rated to -20 °C. If -40 °C rating required, then metallic cable gland is recommended.	
Groups A, B, C, D, E, F, G, Industry Canada, FCC, RCM Intrinsically safe, South Africa ARP0108 Ex ia IIC T4 Ga Pressure rating Rating per Pressure/Temperature curves in manual.	- - 0	 Maximum measurement range 10 m (32.8 ft) solids o Available with Purge option 0 only Maximum measurement range 20 m (65.6 ft) solids o Available with pressure option 0 only Available with Antenna options A, B, F, G, L, and M o 	⁻ 30 m (98.4 ft) liquid
Rating per Pressure/Temperature curves in manual ⁽⁵⁾ 0.5 bar g (7.25 psi g) maximum	1	6) Available with pressure option 0 only	•

Continuous level measurement - Radar transmitters

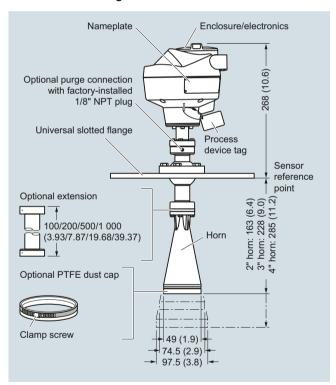
SITRANS LR260

Characteristic curves



SITRANS LR260 ambient/process flange surface temperature curve

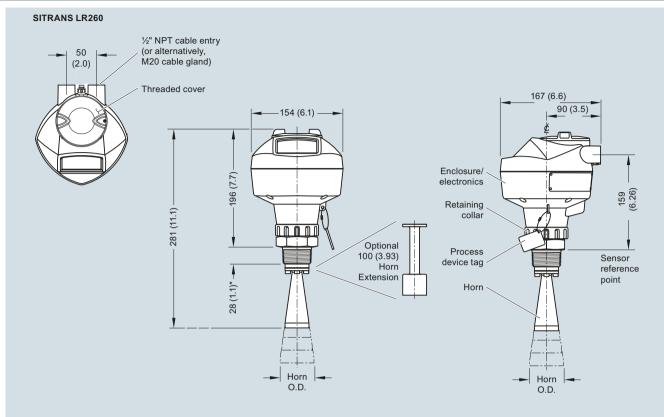
Dimensional drawings



SITRANS LR260, dimensions in mm (inch)

Continuous level measurement - Radar transmitters

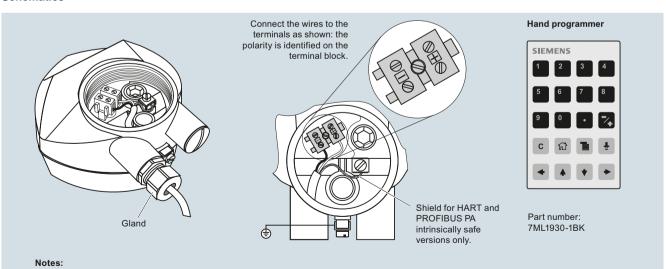
SITRANS LR260



Antenna Type	Antenna O.D.	Height to sensor reference point		Beam angle	Measurement range	
.,,,,		1-1/2" threaded connection	2" threaded connection	3" threaded connection		range
2" horn	47.8 (1.88)	N/A	166 (6.55)	180 (7.09)	15 degrees	20 m (65.6 ft)
3" horn	74.8 (2.94)	N/A	199 (7.85)	213 (8.39)	10 degrees	20 m (65.6 ft)
4" horn	94.8 (3.73)	N/A	254 (10)	268 (10.55)	8 degrees	20 m (65.6 ft)

SITRANS LR260, dimensions in mm (inch)

Schematics



- 1. DC terminal shall be supplied from a source providing electrical isolation between the input and output, to meet the applicable safety requirements of IEC 61010-1.
- 2. All field wiring must have insulation suitable for rated input voltages.
- 3. Use shielded twisted pair cable (14 ... 22 AWG) for HART version.
- 4. Separate cables and conduit may be required to conform to standard instrumentation wiring practices or electrical codes.

Continuous level measurement - Radar transmitters

SITRANS LR260/LR460 Specials

Selection and ordering data

Selection and ordering data	
SITRANS LR260/LR460 Specials	
	Article No.
Process connection part kits - non-pressure-rated	
SITRANS LR260/LR460,100 mm extension for horn antenna, no purge ¹⁾	A5E01087872
SITRANS LR260/LR460, 200 mm extension for horn antenna, no purge ¹⁾	A5E01091262
SITRANS LR260/LR460,100 mm extension for horn antenna with purge ¹⁾	A5E01261979
SITRANS LR260/LR460, 200 mm extension for horn antenna with purge ¹⁾	A5E01261981
SITRANS LR260/LR460, horn 2", no purge, no emitter 1)	A5E02083905
SITRANS LR260/LR460, horn 3", no purge, no emitter ¹⁾	A5E01623511
SITRANS LR260/LR460, horn 4", no purge, no emitter 1)	A5E01623512
SITRANS LR260/LR460, horn 2", with purge, no emitter ¹⁾	A5E02083906
SITRANS LR260/LR460, horn 3", with purge, no emitter ¹⁾	A5E01623513
SITRANS LR260/LR460, horn 4", with purge, no emitter ¹⁾	A5E01623514
SITRANS LR260/LR460, 3" universal flat faced flange ¹⁾	A5E02303897
SITRANS LR260/LR460, 4" universal flat faced flange ¹⁾	A5E01259467
SITRANS LR260/LR460, 6" universal flat faced flange ¹⁾	A5E01261834
SITRANS LR260/LR460 O-rings for Easy Aimer ¹⁾	A5E01261836
Kit, Emitter for LR260/LR460 ¹⁾	A5E02360694
SITRANS LR260 lid with O-ring	A5E02465410
Purge conversion kit – non-pressure-rated (no flange or extension included)	
SITRANS LR260/LR460 purge conversion, 2" horn ¹⁾	A5E02083914
SITRANS LR260/LR460 purge conversion, 3" horn ¹⁾	A5E02083915
SITRANS LR260/LR460 purge conversion, 4" horn ¹⁾	A5E02083916
Enclosure with electronics (LR260)	
SITRANS LR260 enclosure with board stack, HART communication, M20 cable inlet, approval option A, no process connection	A5E02203605
SITRANS LR260 enclosure with board stack, PROFIBUS PA communication, M20 cable inlet, approval option A, no process connection	A5E02213423
SITRANS LR260 enclosure with board stack, HART communication, NPT cable inlet, approval option A, no process connection	A5E02165924
SITRANS LR260 enclosure with board stack, PROFIBUS PA communication, NPT cable inlet, approval option A, no process connection	A5E02213428

SITRANS LR260/LR460 Specials	
	Article No.
SITRANS LR260 enclosure with board stack, HART communication, NPT cable inlet, approval option D, no process connection	A5E03934184
SITRANS LR260 enclosure with board stack, HART communication, M20 cable inlet, approval option E, no process connection	A5E03934187
SITRANS LR260 enclosure with board stack, HART communication, NPT cable inlet, approval option F, no process connection	A5E03934191
SITRANS LR260 enclosure with board stack, PROFIBUS PA communication, M20 cable inlet, approval option E, no process connection	A5E37217558
SITRANS LR260 enclosure with board stack, PROFIBUS PA communication, M20 cable inlet, approval option F, no process connection	A5E31820689
Enclosure with electronics (LR460)	
SITRANS LR460 enclosure with board stack, HART communication, AC power, M20 cable inlet, approval option A, no process connection	A5E02182085
SITRANS LR460 enclosure with board stack, PROFIBUS PA communication, AC power, M20 cable inlet, approval option A, no process connection	A5E02212422
SITRANS LR460 enclosure with board stack, HART communication, AC power, NPT cable inlet, approval option A, no process connection	A5E02212423
SITRANS LR460 enclosure with board stack, PROFIBUS PA communication, AC power, NPT cable inlet, approval option A, no process connection	A5E02212424
SITRANS LR460 enclosure with board stack, HART communication, DC power, M20 cable inlet, approval option A, no process connection	A5E02212425
SITRANS LR460 enclosure with board stack, PROFIBUS PA communication, DC power, M20 cable inlet, approval option A, no process connection	A5E02212426
SITRANS LR460 enclosure with board stack, HART communication, DC power, NPT cable inlet, approval option A, no process connection	A5E02212428
SITRANS LR460 enclosure with board stack, PROFIBUS PA communication, DC power, NPT cable inlet, approval option A, po process connection	A5E02212429

 $^{^{1)}\,\,}$ Available with no pressure rating, 0.5 bar g maximum.

no process connection

Customers interested in a custom designed device should consult a local sales person. For more information, please visit http://www.automation.siemens.com/aspa_app.