

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
<b>SITRANS LR250 hygienic encapsulated antenna</b> 2-wire, 25 Ghz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and pressure, up to a range of 20 m (66 ft) (Antenna dependant). Ideal for Hygienic applications including small vessels and low dielectric media. ↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	<b>7ML5433-</b> 	<b>SITRANS LR250 hygienic encapsulated antenna</b> 2-wire, 25 Ghz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and pressure, up to a range of 20 m (66 ft) (Antenna dependant). Ideal for Hygienic applications including small vessels and low dielectric media.	<b>7ML5433-</b> 
<b>Hygienic/Sanitary Approvals</b> EHEDG EL Class I <sup>1)</sup> ● 1 EHEDG EL Aseptic Class I <sup>1)</sup> ● 2 3-A (Tuchenhagen connections only - FC ... FF) <sup>2)3)</sup> ● 3 EHEDG EL Class I & 3-A (excludes Tuchenhagen connections) <sup>2)4)</sup> ● 4		<b>Communication</b> PROFIBUS PA ● 1 4 ... 20 mA HART, start-up at < 3.6 mA ● 2 FOUNDATION Fieldbus ● 3	
<b>Process Connection Types (all types have TFM1600 PTFE lens)</b> <u>316L st/st [1.4435 or 1.4404]</u> 2" Sanitary Clamp according to ISO 2852 <sup>5)</sup> ● AA 3" Sanitary Clamp according to ISO 2852 ● AB 4" Sanitary Clamp according to ISO 2852 ● AC <u>316L st/st (1.4435 or 1.4404) &amp; 304L st/st (1.4301)</u> DN 50 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A] <sup>5)</sup> ● BA DN 80 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A] ● BB DN 100 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A] ● BC <u>316L st/st [1.4435 or 1.4404]</u> DN 50 Aseptic/Hygienic flanged to DIN 11864-2 [Form A] <sup>5)</sup> ● CA DN 80 Aseptic/Hygienic flanged to DIN 11864-2 [Form A] ● CB DN 100 Aseptic/Hygienic flanged to DIN 11864-2 [Form A] ● CC <u>316L st/st [1.4435 or 1.4404]</u> DN 50 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A] <sup>5)</sup> ● DA DN 80 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A] ● DB DN 100 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A] ● DC <u>316L st/st (1.4435 or 1.4404) &amp; 304L st/st (1.4301)</u> DN 50 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851 <sup>5)</sup> ● EA DN 80 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851 ● EB DN 100 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851 ● EC <u>316L st/st [1.4435 or 1.4404]</u> Type F (50 mm) Tuchenhagen Varivent (EHEDG only) <sup>5)</sup> ● FA Type N (68 mm) Tuchenhagen Varivent (EHEDG only) <sup>5)</sup> ● FB Type F (50 mm) Tuchenhagen Varivent [3-A only & EPDM process seal -40 ... 120 °C (-40 ... 248 °F)] <sup>5)</sup> ● FC Type N (68 mm) Tuchenhagen Varivent [3-A only & EPDM process seal -40 ... 120 °C (-40 ... 248 °F)] <sup>5)</sup> ● FD Type F (50 mm) Tuchenhagen Varivent [3-A only & FKM process seal -20 ... 170 °C (-4 ... 338 °F)] <sup>5)</sup> ● FE Type N (68 mm) Tuchenhagen Varivent [3-A only & FKM process seal -20 ... 170 °C (-4 ... 338 °F)] <sup>5)</sup> ● FF EXCLUDE Process Connection - Electronics Head assembly spare only (select all other options as normal) ● YY		<b>Enclosure (with Cable Inlets)</b> Aluminum, Epoxy paint, 2 X 1/2" NPT ● 0 Aluminum, Epoxy paint, 2 X M20 x 1.5 ● 1	
		<b>Approvals</b> General Purpose, CE, CSA, FM, FCC, R&TTE, RCM ● A Intrinsically Safe: CSA/FM Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G, Class III T4 FCC, Industry Canada ● B Intrinsically Safe: IECEx/ATEX II 1 GD Ex ia IIC T4 Ga, Ex ia ta IIIC T100 °C Da, INMETRO Ex ia IIC T4 Ga, Ex ia ta IIIC T100 °C Da, CE, R&TTE, RCM ● C Non-incendive: CSA/FM Class I, Div. 2, Groups A, B, C, D T5, FCC, Industry Canada ● D Non Sparking: ATEX II 3G Ex nA IIC T4 Gc, CE, R&TTE, RCM ● E Increased Safety: IECEx/ATEX II 1/2 GD, 1D, 2D Ex e mb ia IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da, INMETRO Ex e ia mb IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da, CE, R&TTE, RCM <sup>6)</sup> ● F Flameproof: IECEx/ATEX II 1/2 GD 1D, 2D Ex d mb ia IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da, INMETRO Ex d ia mb IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da, CE, R&TTE, RCM <sup>6)</sup> ● G Explosion proof: CSA/FM Class I, II and III, Div. 1, Groups A, B, C, D, E, F, G, FCC, Industry Canada <sup>6)</sup> ● H Non Sparking: NEPSI Ex nA IIC T4 Gc ● K Intrinsically Safe: NEPSI Ex ia IIC T4 Ga, Ex iaD tD A20 IP67 T100 °C ● L Flameproof: NEPSI Ex d ia mb IIC T4 Ga/Gb, Ex iaD tD A20 IP67 T100 °C <sup>6)</sup> ● M Increased Safety: NEPSI Ex e ia mb IIC T4 Ga/Gb, Ex iaD tD A20 IP67 T100 °C <sup>6)</sup> ● N	
		<b>Pressure Rating</b> Rating per pressure/temperature curves in instruction manual ● 0	
		● We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ●. For details see page 9/5 in the appendix.	

Selection and Ordering data	Order code
<b>Further designs</b>	
Please add <b>"-Z"</b> to Article No. and specify Order code(s).	
<b>Electrical Connection cable entry:</b>	
Plug M12 (IP 67 rating) with mating connector <sup>2)7)8)</sup>	<b>A50</b>
Plug 7/8" (IP 67 rating) with mating Connector <sup>2)8)9)</sup>	<b>A55</b>
<b>Test Certificates</b>	
Manufacturer's Test Certificate M to DIN 55350, Part 18 and to ISO 9000	<b>C11</b>
Inspection Certificate 3.1 of EN 10204	<b>C12</b>
<b>Functional Safety</b>	
Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511 <sup>6)10)</sup>	<b>C20</b>
<b>Namur</b>	
Namur NE43 compliant, device preset to failsafe < 3.6 mA <sup>6)</sup>	<b>N07</b>
<b>Tagging</b>	
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97 inch)]	
Measuring-point number / identification (max. 27 characters) specify in plain text	<b>Y15</b>
<b>Compact Operating Instructions for HART/ma device</b>	Article No.
English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish	<b>A5E33469191</b>
English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian	<b>A5E33469171</b>
English, Portuguese (Brazil), Chinese	<b>A5E34046583</b>
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 <a href="http://www.siemens.com/processinstrumentation/documentation">http://www.siemens.com/processinstrumentation/documentation</a> This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.	
<b>Compact Operating Instructions for PROFIBUS PA device</b>	
English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish	<b>A5E33469239</b>
English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian	<b>A5E33472685</b>
English, Portuguese (Brazil), Chinese	<b>A5E34046624</b>
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 <a href="http://www.siemens.com/processinstrumentation/documentation">http://www.siemens.com/processinstrumentation/documentation</a> This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.	

Selection and Ordering data	Article No.
<b>Compact Operating Instructions for FOUNDATION Fieldbus device</b>	
English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish	<b>A5E33472700</b>
English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian	<b>A5E33472738</b>
English, Portuguese (Brazil), Chinese	<b>A5E34046626</b>
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 <a href="http://www.siemens.com/processinstrumentation/documentation">http://www.siemens.com/processinstrumentation/documentation</a> This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.	
<b>Accessories</b>	
Handheld programmer, Intrinsically safe, EEx ia (LUI enabled)	<b>7ML1930-1BK</b>
HART modem/USB (for use with a PC and SIMATIC PDM)	<b>7MF4997-1DB</b>
One metallic cable gland M20 x 1.5, rated -40 ... +80 °C (-40 ... +176 °F), HART (two are required) <sup>6)</sup>	<b>7ML1930-1AP</b>
One metallic cable gland M20 x 1.5, rated -40 ... +80 °C (-40 ... +176 °F), PROFIBUS PA and FOUNDATION Fieldbus (two are required) <sup>8)</sup>	<b>7ML1930-1AQ</b>
SITRANS RD100, loop powered display - see Chapter 7	<b>7ML5741-...</b>
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	<b>7ML5740-...</b>
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	<b>7ML5744-...</b>
SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7	<b>7ML5750-...</b>
For applicable back up point level switch - see point level measurement section	
<ul style="list-style-type: none"> <li>◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.</li> <li>1) Available with process connection options AA ... FB &amp; YY only</li> <li>2) Available with Approval options A, B, C, L only</li> <li>3) Available with Process connections FC ... FF only</li> <li>4) Available with process connection options AA ... EC &amp; YY only</li> <li>5) Max. range 10 m (32.8 ft), dk &gt; 3 [20 m (66 ft) and dk &gt; 1.6 if installed in a stillpipe]</li> <li>6) Applicable with Communication option 2 only</li> <li>7) Available with Enclosure option 1 only</li> <li>8) Available with Communication options 1 and 3 only</li> <li>9) Available with Enclosure option 0 only</li> <li>10) Available with Approval options A, B, C, D, E, K, L only</li> </ul>	

## Selection and ordering data

### SITRANS LR250 hygienic encapsulated Specials

For "Electronics Head only" follow the standard configuration and choose YY option on positions 9 and 10 of the full part number.

For example: 7ML5433-1YY20-1AA0 will order an electronics head for the following:

**EHEDG EL Class 1 approval, 4 ... 20mA HART, M20 cable entries, General purpose Haz Loc approval, pressure rating as per manual.**

#### Spare Lens Kits (Lens and O-ring)

Kit, 2 inch, ISO2852, HEA, Lens, silicone secondary O-ring

Kit, 3 inch, ISO2852, HEA, Lens, silicone secondary O-ring

Kit, 4 inch, ISO2852, HEA, Lens, silicone secondary O-ring

Kit, DN 50, DIN 11851, HEA, Lens, silicone secondary O-ring

Kit, DN 80, DIN 11851, HEA, Lens, silicone secondary O-ring

Kit, DN 100, DIN 11851, HEA, Lens, silicone secondary O-ring

Kit, DN 50, DIN11864-1, HEA, Lens, silicone secondary O-ring

Kit, DN 80, DIN 11864-1, HEA, Lens, silicone secondary O-ring

Kit, DN 100, DIN 11864-1, HEA, Lens, silicone secondary O-ring

Kit, DN 50, DIN 11864-2/3, HEA, Lens, silicone secondary O-ring

Kit, DN 80, DIN 11864-2/3, HEA, Lens, silicone secondary O-ring

Kit, DN 100, DIN 11864-2/3, HEA, Lens, silicone secondary O-ring

Kit, Tuchenhagen, Type F, HEA, Lens, silicone secondary O-ring

Kit, Tuchenhagen, Type N, HEA, Lens, silicone secondary O-ring

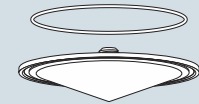
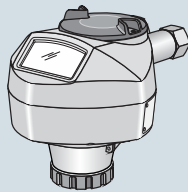
#### Accessories (customer side process connection and FKM and EPDM seal for each size and type)

Kit DN 50 DIN 11864-1 GS Form A tank connection, EPDM Seal Class II

Kit, DN 80 DIN 11864-1 GS Form A tank connection, EPDM Seal Class II

Kit, DN 100 DIN 11864-1 GS Form A tank connection, EPDM Seal Class II

Article No.



**A5E32572731**

**A5E32572745**

**A5E32572747**

**A5E32572758**

**A5E32572770**

**A5E32572772**

**A5E32572773**

**A5E32572779**

**A5E32572782**

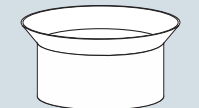
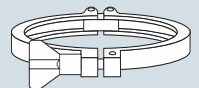
**A5E32572785**

**A5E32572790**

**A5E32572791**

**A5E32572794**

**A5E32572795**



**A5E32910638**

**A5E32910649**

**A5E32910657**

### SITRANS LR250 hygienic encapsulated Specials

Article No.

Kit DN 50 DIN 11864-1 GS Form A tank connection, FKM Seal Class I

**A5E32910658**

Kit, DN 80 DIN 11864-1 GS Form A tank connection, FKM Seal Class I

**A5E32910671**

Kit, DN 100 DIN 11864-1 GS Form A tank connection, FKM Seal Class I

**A5E32910681**

Kit 2" ISO 2852 tank connection, Clamp, Cleanable EPDM Seal Class II

**A5E32910686**

Kit 3" ISO 2852 tank connection, Clamp, Cleanable EPDM Seal Class II

**A5E32910697**

Kit 4" ISO 2852 tank connection, Clamp, Cleanable EPDM Seal Class II

**A5E32910708**

Kit DN 50 DIN 11851 SC tank connection, EPDM Seal Class II<sup>1)</sup>

**A5E32910746**

Kit DN 80 DIN 11851 SC tank connection, EPDM Seal Class II<sup>1)</sup>

**A5E32910771**

Kit DN 100 DIN 11851 SC tank connection, EPDM Seal Class II<sup>1)</sup>

**A5E32910780**

Kit DN 50 DIN 11851 SC tank connection, FKM Seal Class II

**A5E32910784**

Kit DN 80 DIN 11851 SC tank connection, FKM Seal Class II

**A5E32910789**

Kit DN 100 DIN 11851 SC tank connection, FKM Seal Class II

**A5E32910790**

Kit DN 50 DIN 11864-2 Form A tank connection, M8 Hardware (nut/bolt/washer), EPDM Seal Class II

**A5E32910791**

Kit DN 80 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), EPDM Seal Class II

**A5E32910793**

Kit DN 100 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), EPDM Seal Class II

**A5E32910799**

Kit DN 50 DIN 11864-2 Form A tank connection, M8 Hardware (nut/bolt/washer), FKM Seal Class I

**A5E32910805**

Kit DN 80 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), FKM Seal Class I

**A5E32910809**

Kit DN 100 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), FKM Seal Class I

**A5E32910812**

Kit DN 50 DIN 11864-3 Form A tank connection, Clamp, EPDM Seal Class II

**A5E32910813**

Kit DN 80 DIN 11864-3 Form A tank connection, Clamp, EPDM Seal Class II

**A5E32910814**

Kit DN 100 DIN 11864-3 Form A tank connection, Clamp, EPDM Seal Class II

**A5E32910815**

Kit DN 50 DIN 11864-3 Form A tank connection, Clamp, FKM Seal Class I

**A5E32910816**

Kit DN 80 DIN 11864-3 Form A tank connection, Clamp, FKM Seal Class I

**A5E32910817**

Kit DN 100 DIN 11864-3 Form A tank connection, Clamp, FKM Seal Class I

**A5E32910818**

Kit Type F, Tuchenhagen, Clamp, EPDM Seal Class II (EHEDG only) - no tank connection

**A5E33489537**

Kit Type N, Tuchenhagen, Clamp, EPDM Seal Class II (EHEDG only) - no tank connection

**A5E33489543**

Kit Type F, Tuchenhagen, Clamp, FKM Seal Class I (EHEDG only) - no tank connection

**A5E33489828**

Kit Type N, Tuchenhagen, Clamp, FKM Seal Class I (EHEDG only) - no tank connection

**A5E33489830**

<sup>1)</sup> Class II for low fat applications when EPDM seal used on DIN 11851.