

| Selection and Ordering data                                                                                                                                                                                                                                                                                 | Article No.     |           |  |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|--|--------------|
| <b>SITRANS LR250 hygienic encapsulated antenna</b>                                                                                                                                                                                                                                                          | <b>7ML5433-</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>0 - A</b> |
| Click on the Article No. for the online configuration in the PIA Life Cycle Portal.                                                                                                                                                                                                                         |                 |           |  |              |
| <b>Hygienic/Sanitary Approvals</b>                                                                                                                                                                                                                                                                          |                 |           |  |              |
| EHEDG EL Class I <sup>1)</sup>                                                                                                                                                                                                                                                                              |                 | <b>1</b>  |  |              |
| EHEDG EL Aseptic Class I <sup>1)</sup>                                                                                                                                                                                                                                                                      |                 | <b>2</b>  |  |              |
| 3-A (Tuchenhagen connections only - FC ... FF) <sup>2)3)</sup>                                                                                                                                                                                                                                              |                 | <b>3</b>  |  |              |
| EHEDG EL Class I & 3-A (excludes Tuchenhagen connections) <sup>2)4)</sup>                                                                                                                                                                                                                                   |                 | <b>4</b>  |  |              |
| <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>                                                                                                                                                                                                                                                       |                 | <b>AA</b> |  |              |
| 3" Sanitary Clamp according to ISO 2852                                                                                                                                                                                                                                                                     |                 | <b>AB</b> |  |              |
| 4" Sanitary Clamp according to ISO 2852                                                                                                                                                                                                                                                                     |                 | <b>AC</b> |  |              |
| <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>                                                                                                                                                                                                          |                 | <b>BA</b> |  |              |
| DN 80 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A]                                                                                                                                                                                                                        |                 | <b>BB</b> |  |              |
| DN 100 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A]                                                                                                                                                                                                                       |                 | <b>BC</b> |  |              |
| <u>316L st/st [1.4435 or 1.4404]</u>                                                                                                                                                                                                                                                                        |                 |           |  |              |
| DN 50 Aseptic/Hygienic flanged to DIN 11864-2 [Form A] <sup>5)</sup>                                                                                                                                                                                                                                        |                 | <b>CA</b> |  |              |
| DN 80 Aseptic/Hygienic flanged to DIN 11864-2 [Form A]                                                                                                                                                                                                                                                      |                 | <b>CB</b> |  |              |
| DN 100 Aseptic/Hygienic flanged to DIN 11864-2 [Form A]                                                                                                                                                                                                                                                     |                 | <b>CC</b> |  |              |
| <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>                                                                                                                                                                                                                                |                 | <b>DA</b> |  |              |
| DN 80 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A]                                                                                                                                                                                                                                              |                 | <b>DB</b> |  |              |
| DN 100 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A]                                                                                                                                                                                                                                             |                 | <b>DC</b> |  |              |
| <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>                                                                                                                                                                                                                             |                 | <b>EA</b> |  |              |
| DN 80 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851                                                                                                                                                                                                                                           |                 | <b>EB</b> |  |              |
| DN 100 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851                                                                                                                                                                                                                                          |                 | <b>EC</b> |  |              |
| <u>316L st/st [1.4435 or 1.4404]</u>                                                                                                                                                                                                                                                                        |                 |           |  |              |
| Type F (50 mm) Tuchenhagen Varivent (EHEDG only) <sup>5)</sup>                                                                                                                                                                                                                                              |                 | <b>FA</b> |  |              |
| Type N (68 mm) Tuchenhagen Varivent (EHEDG only) <sup>5)</sup>                                                                                                                                                                                                                                              |                 | <b>FB</b> |  |              |
| Type F (50 mm) Tuchenhagen Varivent [3-A only & EPDM process seal -40 ... 120 °C (-40 ... 248 °F )] <sup>5)</sup>                                                                                                                                                                                           |                 | <b>FC</b> |  |              |
| Type N (68 mm) Tuchenhagen Varivent [3-A only & EPDM process seal -40 ... 120 °C (-40 ... 248 °F)] <sup>5)</sup>                                                                                                                                                                                            |                 | <b>FD</b> |  |              |
| Type F (50 mm) Tuchenhagen Varivent [3-A only & FKM process seal -20 ... 170 °C (-4 ... 338 °F)] <sup>5)</sup>                                                                                                                                                                                              |                 | <b>FE</b> |  |              |
| Type N (68 mm) Tuchenhagen Varivent [3-A only & FKM process seal -20 ... 170 °C (-4 ... 338 °F)] <sup>5)</sup>                                                                                                                                                                                              |                 | <b>FF</b> |  |              |
| EXCLUDE Process Connection - Electronics Head assembly spare only (select all other options as normal)                                                                                                                                                                                                      |                 | <b>YY</b> |  |              |

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| <b>SITRANS LR250 hygienic encapsulated antenna</b>                                                                                                                                                                                                                                                          | <b>7ML5433-</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>0 - A</b> |
| <b>Communication</b>                                                                                                                                                                                                                                                                                        |                 |          |  |              |
| PROFIBUS PA                                                                                                                                                                                                                                                                                                 |                 | <b>1</b> |  |              |
| 4 ... 20 mA HART, start-up at < 3.6 mA                                                                                                                                                                                                                                                                      |                 | <b>2</b> |  |              |
| FOUNDATION Fieldbus                                                                                                                                                                                                                                                                                         |                 | <b>3</b> |  |              |
| <b>Enclosure (with Cable Inlets)</b>                                                                                                                                                                                                                                                                        |                 |          |  |              |
| Aluminum, Epoxy paint, 2 X ½" NPT                                                                                                                                                                                                                                                                           |                 | <b>0</b> |  |              |
| Aluminum, Epoxy paint, 2 X M20 x 1.5                                                                                                                                                                                                                                                                        |                 | <b>1</b> |  |              |
| <b>Approvals</b>                                                                                                                                                                                                                                                                                            |                 |          |  |              |
| General Purpose, CE, CSA, FM, FCC, R&TTE, RCM                                                                                                                                                                                                                                                               |                 |          |  | <b>A</b>     |
| 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>B</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                                                                                                                                                         |                 |          |  | <b>C</b>     |
| Non-incendive: CSA/FM Class I, Div. 2, Groups A, B, C, D T5, FCC, Industry Canada                                                                                                                                                                                                                           |                 |          |  | <b>D</b>     |
| Non Sparking: ATEX II 3G Ex nA IIC T4 Gc, CE, R&TTE, RCM                                                                                                                                                                                                                                                    |                 |          |  | <b>E</b>     |
| 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>                                                                                                                   |                 |          |  | <b>F</b>     |
| 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>                                                                                                                          |                 |          |  | <b>G</b>     |
| 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>                                                                                                                                                                                         |                 |          |  | <b>H</b>     |
| Non Sparking: NEPSI Ex nA IIC T4 Gc                                                                                                                                                                                                                                                                         |                 |          |  | <b>K</b>     |
| Intrinsically Safe: NEPSI Ex ia IIC T4 Ga, Ex iaD 20 T90 IP67 DIP A20 TA 90 °C                                                                                                                                                                                                                              |                 |          |  | <b>L</b>     |
| Flameproof: NEPSI Ex d ia mb IIC T4 Ga/Gb, Ex iaD 20 T90 IP67 DIP A20 TA 90 °C <sup>6)</sup>                                                                                                                                                                                                                |                 |          |  | <b>M</b>     |
| Increased Safety: NEPSI Ex e ia mb IIC T4 Ga/Gb, Ex iaD 20 T90 IP67 DIP A20 TA 90 °C <sup>6)</sup>                                                                                                                                                                                                          |                 |          |  | <b>N</b>     |
| <b>Pressure Rating</b>                                                                                                                                                                                                                                                                                      |                 |          |  |              |
| Rating per pressure/temperature curves in instruction manual                                                                                                                                                                                                                                                |                 |          |  | <b>0</b>     |

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 | Selection and Ordering data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Article No. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|
| <b>Further designs</b><br>Please add <b>"-Z"</b> to Article No. and specify Order code(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            | <b>Operating Instructions for FOUNDATION Fieldbus device</b><br>English<br>German<br>French<br>Note: The Operating Instructions should be ordered as a separate line item on the order.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |             |
| Electrical Connection cable entry:<br>Plug M12 (IP 67 rating) with mating connector <sup>2)7)8)</sup> <b>A50</b><br>Plug 7/8" (IP 67 rating) with mating Connector <sup>2)8)9)</sup> <b>A55</b><br>Test Certificates<br>Manufacturer's Test Certificate M to DIN 55350, Part 18 and to ISO 9000 <b>C11</b><br>Inspection Certificate 3.1 of EN 10204 <b>C12</b><br>Functional Safety<br>Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511 <sup>6)10)</sup> <b>C20</b><br>Namur<br>Namur NE43 compliant, device preset to failsafe < 3.6 mA <sup>6)</sup> <b>N07</b><br>Tagging<br>Stainless steel tag [69 mm x 50 mm (2.71 x 1.97 inch)]<br>Measuring-point number / identification (max. 27 characters) specify in plain text <b>Y15</b> |  |            | <b>Compact Operating Instructions for FOUNDATION Fieldbus device</b><br>English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish <b>A5E33472700</b><br>English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian <b>A5E33472738</b><br>English, Portuguese (Brazil), Chinese <b>A5E34046626</b><br>This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |             |
| <b>Operating Instructions for HART/mA device</b><br>English <b>A5E32220602</b><br>German <b>A5E32376088</b><br>French <b>A5E35108592</b><br>Note: The Operating Instructions should be ordered as a separate line item on the order.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            | <b>Accessories</b><br>Handheld programmer, Intrinsically safe, EEx ia (LUI enabled) <b>7ML1930-1BK</b><br>HART modem/USB (for use with a PC and SIMATIC PDM) <b>7MF4997-1DB</b><br>One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), HART (two are required) <sup>6)</sup> <b>7ML1930-1AP</b><br>One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), PROFIBUS PA and FOUNDATION Fieldbus (two are required) <sup>8)</sup> <b>7ML1930-1AQ</b><br>SITRANS RD100, loop powered display - see Chapter 7 <b>7ML5741-...</b><br>SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 <b>7ML5740-...</b><br>SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 <b>7ML5744-...</b><br>SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 <b>7ML5750-...</b><br>For applicable back up point level switch - see point level measurement section<br>◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix. |  |             |
| <b>Compact Operating Instructions for HART/mA device</b><br>English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish <b>A5E33469191</b><br>English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian <b>A5E33469171</b><br>English, Portuguese (Brazil), Chinese <b>A5E34046583</b><br>This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.                                                                                                                                                                                                                                        |  |            | <b>Operating Instructions for PROFIBUS PA device</b><br>English <b>A5E32221386</b><br>German <b>A5E32376094</b><br>French <b>A5E35108597</b><br>Note: The Operating Instructions should be ordered as a separate line item on the order.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |             |
| <b>Compact Operating Instructions for PROFIBUS PA device</b><br>English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish <b>A5E33469239</b><br>English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian <b>A5E33472685</b><br>English, Portuguese (Brazil), Chinese <b>A5E34046624</b><br>This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.                                                                                                                                                                                                                                    |  |            | <ol style="list-style-type: none"> <li>Available with process connection options AA ... FB &amp; YY only</li> <li>Available with Approval options A, B, C, L only</li> <li>Available with Process connection FC ... FF only</li> <li>Available with process connection options AA ... EC &amp; YY only</li> <li>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>Applicable with Communication option 2 only</li> <li>Available with Enclosure option 1 only</li> <li>Available with Communication options 1 and 3 only.</li> <li>Available with Enclosure option 0 only</li> <li>Available with Approval options A, B, C, D, E, K, L only</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |             |