

Selection and Ordering data		Article No.	Selection and Ordering data		Order code
SITRANS LR200, Uni-Construction polypropylene rod antenna version 2-wire, 6 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in process vessels including high temperature and pressure, to a range of 20 m (66 ft). Max. 3 bar g (43.5 psi g) pressure and 80 °C (176 °F) ➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		➤ 7ML5422-0 	Further designs Please add "-Z" to Article No. and specify Order code(s). Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters); specify in plain text Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000 Namur NE43 compliant, device preset to failsafe < 3.6 mA ¹⁾		Y15 C11 N07
Enclosure/Cable inlet Aluminum, epoxy painted 2 x 1/2" NPT 2 x M20x1.5		2 3	Operating Instructions for HART/mA device English German Note: The Operating Instructions should be ordered as a separate line item on the order. Multi-language Quick Start manual This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.		Article No. A5E32337676 A5E34942758 A5E31993614
Polypropylene antenna type - (Max. 3 Bar pressure and 80 °C) 1 1/2" NPT [(Taper), ANSI/ASME B1.20.1], c/w integral 100 mm shield R 1 1/2" [(BSPT), EN 10226], c/w integral 100 mm shield G 1 1/2" [(BSPP), EN ISO 228-1], c/w integral 100 mm shield 1 1/2" NPT [(Taper), ANSI/ASME B1.20.1], c/w integral 250 mm shield R 1 1/2" [(BSPT), EN 10226], c/w integral 250 mm shield G 1 1/2" [(BSPP), EN ISO 228-1], c/w integral 250 mm shield		A B C D E F	Operating Instructions for PROFIBUS PA device English German Note: The Operating Instructions should be ordered as a separate line item on the order. Multi-language Quick Start manual This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.		A5E32337680 A5E34942820 A5E32153438
Approvals General Purpose, CE, R&TTE, RCM General Purpose, CSA, FM, Industry Canada, FCC Intrinsically Safe, CSA Class I, II, Div. 1, Groups A, B, C, D, E, F, G, Industry Canada Intrinsically Safe, FM Class I, II, Div. 1, Groups A, B, C, D, E, F, G, FCC Intrinsically Safe, IECEx/ATEX II 1G Ex ia IIC T4, INMETRO Ex ia IIC T4, CE, R&TTE, RCM; GOST-R Non Incendive, FM Class I, Div. 2, Groups A, B, C, D, FCC ¹⁾ Increased Safety, ATEX II 1/2G Ex e mb ia IIC T4 Ga/Gb, CE, R&TTE, RCM; GOST-R ²⁾ Flame Proof, ATEX II 1/2G Ex d mb ia IIC T4 Ga/Gb, CE, R&TTE, RCM; GOST-R ³⁾ Explosion Proof, CSA/FM Class I, II, III, Groups A, B, C, D, E, F, G, Industry Canada, FCC ¹⁾		A B C D E F G H J	Accessories Handheld programmer, Intrinsically safe, EEx ia HART modem/USB (for use with a PC and SIMATIC PDM) One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), HART ²⁾ One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), PROFIBUS PA ²⁾ One general purpose polymeric cable gland M20x1.5, rated -20 ... +80 °C (-40 ... +176 °F) SITRANS RD100, loop powered display - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 For applicable back up point level switch - see point level measurement section		7ML1930-1BK 7MF4997-1DB 7ML1930-1AP 7ML1930-1AQ 7ML1930-1AM 7ML5741-... 7ML5740-... 7ML5744-... 7ML5750-...
Communication/Output PROFIBUS PA 4 ... 20 mA, HART, start-up at < 3.6 mA		2 3			
¹⁾ Available with enclosure option 2 only ²⁾ Available with enclosure option 3 only ³⁾ Available with communication option 3 only					

Selection and Ordering data	Article No.			
SITRANS LR200, Flange Adapter/PTFE Rod Antenna Version	7ML5423-			
2-wire, 6 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in process vessels including high temperature and pressure, to a range of 20 m (66 ft).				
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.				
Antenna material (uses antenna adapter)				
PTFE, uses antenna adapter and additional process connection below	1			
Process connection (refer to Pressure/Temperature curves, page 4/208)				
Flanges (316L stainless steel)				
DN 50 PN 16, Type A, flat faced	AA			
DN 80 PN 16, Type A, flat faced	BA			
DN 100 PN 16, Type A, flat faced	CA			
DN 150 PN 16, Type A, flat faced	DA			
2" ASME 150 lb, flat faced	FB			
3" ASME 150 lb, flat faced	GB			
4" ASME 150 lb, flat faced	HB			
6" ASME 150 lb, flat faced	JB			
DN 50 PN 40, flat faced	AC			
DN 80 PN 40, flat faced	BC			
DN 100 PN 40, flat faced	CC			
DN 150 PN 40, flat faced	DC			
2" ASME 300 lb, flat faced, available with Pressure rating option 1 only due to flange hole spacing	FD			
3" ASME 300 lb, flat faced	GD			
4" ASME 300 lb, flat faced	HD			
6" ASME 300 lb, flat faced	JD			
JIS DN 50 10K	AE			
JIS DN 80 10K	BE			
JIS DN 100 10K	CE			
JIS DN 150 10K	DE			
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5, or EN 1092-1, or JIS B 2220 standard.)				
Threaded connection (316L stainless steel)				
1½" NPT [(Taper), ANSI/ASME B1.20.1]	LA			
2" NPT [(Taper), ANSI/ASME B1.20.1]	MA			
R 1½" [(BSPT), EN 10226]	LC			
R 2" [(BSPT), EN 10226]	MC			
G 1½" [(BSPP), EN ISO 228-1]	LE			
G 2" [(BSPP), EN ISO 228-1]	ME			
Antenna extensions or Inactive shield length				
No antenna extension	0			
50 mm (2 inch) extension, PTFE	1			
100 mm (4 inch) extension, PTFE	2			
100 mm (4 inch) extension, 316L stainless steel shield ¹⁾	3			
150 mm (6 inch) extension, 316L stainless steel shield ¹⁾	4			
200 mm (8 inch) extension, 316L stainless steel shield ¹⁾	5			
250 mm (10 inch) extension, 316L stainless steel shield ¹⁾	6			
Process seal/gasket				
Integral Gasket, for flat faced flange process connections only, not for Antenna extension options 3 ... 6	0			
FKM O-ring, not available for combination of flat faced flanges with Antenna extension options 0, 1 or 2	1			

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2-wire, 6 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in process vessels including high temperature and pressure, to a range of 20 m (66 ft).				
Enclosure/Cable inlet				
Aluminum, Epoxy painted				
2 x ½" NPT	2			
2 x M20x1.5	3			
Communication/Output				
PROFIBUS PA	B			
4 ... 20 mA, HART, start-up at < 3.6 mA	C			
Approvals				
General Purpose, CE, R&TTE, RCM	A			
General Purpose, CSA FM, Industry Canada, FCC	B			
Intrinsically Safe, CSA Class I, II, Div. 1, Groups A, B, C, D, E, F, G, Industry Canada	C			
Intrinsically Safe, FM Class I, II, Div. 1, Groups A, B, C, D, E, F, G, FCC	D			
Intrinsically Safe, IECEx/ATEX II 1G Ex ia IIC T4, INMETRO Ex ia IIC T4, CE, R&TTE, RCM; GOST-R	E			
Non incendive, FM Class I, Div. 2, Groups A, B, C, D, FCC ²⁾	F			
Increased Safety, ATEX II 1/2G Ex e mb ia IIC T4 Ga/Gb, CE, R&TTE, RCM; GOST-R ³⁾⁴⁾	G			
Flame Proof, ATEX II 1/2G Ex d mb ia IIC T4 Ga/Gb, CE, R&TTE, RCM; GOST-R ⁴⁾	H			
Explosion Proof, CSA/FM Class I, II, III, Groups A, B, C, D, E, F, G, Industry Canada, FCC ²⁾⁴⁾	J			
Pressure rating				
Rating per Pressure/Temperature curves in manual 0.5 bar g (7.25 psi g) maximum	0			
	1			

¹⁾ Available with process connection options BA, CA, DA, GB, HB, JB, BC, CC, DC, GD, HD, JD, BE, CE, DE, MA, MC, ME only

²⁾ Available with enclosure option 2 only

³⁾ Available with enclosure option 3 only

⁴⁾ Available with communication option C only

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
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
Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	C11
Inspection Certificate Type 3.1 per EN 10204	C12
Namur NE43 compliant, device preset to failsafe < 3.6 mA ³⁾	N07
Operating Instructions for HART/mA device	
English	Article No. A5E32337676
German	A5E34942758
Note: The Operating Instructions should be ordered as a separate line item on the order.	
Multi-language Quick Start manual This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.	A5E31993614
Operating Instructions for PROFIBUS PA device	
English	A5E32337680
German	A5E34942820
Note: The Operating Instructions should be ordered as a separate line item on the order.	
Multi-language Quick Start manual This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.	A5E32153438
Accessories	
Handheld programmer, Intrinsically safe, EEx ia	7ML1930-1BK
Antenna, rod, PTFE	7ML1830-1HC
Antenna extension, 50 mm (2 inch), PTFE	7ML1830-1CH
Antenna extension, 100 mm (4 inch), PTFE	7ML1830-1CG
HART modem / USB (for use with PC and SIMATIC PDM)	7MF4997-1DB
Metallic cable gland M20 x 1.5, rated -40 °C (-40 °F) ... 80 °C (176 °F), HART (two are required)	7ML1930-1AP
Metallic cable gland M20 x 1.5, rated -40 °C (-40 °F) ... 80 °C (176 °F), PROFIBUS PA (two required)	7ML1930-1AQ
One General Purpose polymeric cable gland M20 x 1.5, rating for -20 °C (-4°F) ...+ 80 °C (176 °F)	7ML1930-1AM
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	

Selection and Ordering data	Article No.			
SITRANS LR200, Flange adapter/Horn Antenna version	7ML5425-			
2-wire, 6 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in process vessels including high temperature and pressure, to a range of 20 m (66 ft).				
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.				
Antenna material (uses antenna adapter)				
316L stainless steel with PTFE cone emitter	0			
316L stainless steel with PTFE cone emitter and purge connection with 1/8" NPT inlet ¹⁾	1			
Sliding waveguide system with 1 000 mm (40 inch) waveguide ¹⁾²⁾	2			
Process connection (refer to Pressure/ Temperature curves, page 4/209)				
Flanges (316L stainless steel)				
DN 50 PN 16 EN 1092-1 Type A flat faced ¹⁾	AA			
DN 80 PN 16 EN 1092-1 Type A flat faced	BA			
DN 100 PN 16 EN 1092-1 Type A flat faced	CA			
DN 150 PN 16 EN 1092-1 Type A flat faced	DA			
DN 200 PN 16 EN 1092-1 Type A flat faced	EA			
DN 80 PN 10/16 DIN EN 1092-1 Type B1 raised face ³⁾	BF			
DN 100 PN 10/16 DIN EN 1092-1 Type B1 raised face ³⁾	CF			
DN 150 PN 10/16 DIN EN 1092-1 Type B1 raised face ³⁾	DF			
DN 200 PN 16 DIN EN 1092-1 Type B1 raised face ³⁾	EF			
2" ASME 150 lb, flat faced ¹⁾	FB			
3" ASME 150 lb, flat faced	GB			
4" ASME 150 lb, flat faced	HB			
6" ASME 150 lb, flat faced	JB			
8" ASME 150 lb, flat faced	KB			
DN 50 PN 40, flat faced ³⁾	AC			
DN 80 PN 40, flat faced ³⁾	BC			
DN 100 PN 40, flat faced ³⁾	CC			
DN 200 PN 40, flat faced ³⁾	EC			
DN 80 PN 25/40 DIN EN 1092-1 Type B1 raised face ³⁾	CG			
DN 100 PN 25/40 DIN EN 1092-1 Type B1 raised face ³⁾	DG			
DN 150 PN 25/40 DIN EN 1092-1 Type B1 raised face ³⁾	EG			
2" ASME 300 lb, flat faced ¹⁾³⁾	FD			
3" ASME 300 lb, flat faced ³⁾	GD			
4" ASME 300 lb, flat faced ³⁾	HD			
JIS DN 50 10K ¹⁾	AE			
JIS DN 80 10K	BE			
JIS DN 100 10K	CE			
JIS DN 150 10K	DE			
JIS DN 200 10K	EE			
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5, or EN 1092-1, or JIS B 2220 standard.)				
Communication/Output				
PROFIBUS PA	1			
4 ... 20 mA, HART, start-up at < 3.6 mA	2			

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2-wire, 6 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in process vessels including high temperature and pressure, to a range of 20 m (66 ft).				
Process seal/gasket				
FKM (-40 ... +200 °C)	0			
Nitrile (-40 ... +60 °C), sliding waveguide systems only	1			
FFKM (-35 ... +200 °C)	2			
Enclosure/Cable inlet				
Aluminum, Epoxy painted				
2 x ½" NPT	2			
2 x M20x1.5	3			
Horn size/Waveguide options				
80 mm (3 inch) horn ⁴⁾	B			
100 mm (4 inch) horn ⁴⁾	C			
150 mm (6 inch) horn	D			
200 mm (8 inch) horn	E			
100 mm (4 inch) horn with 100 mm (4 inch) waveguide extension ⁴⁾	F			
100 mm (4 inch) horn with 150 mm (6 inch) waveguide extension ⁴⁾	G			
100 mm (4 inch) horn with 200 mm (8 inch) wave-guide extension ⁴⁾	H			
100 mm (4 inch) horn with 250 mm (10 inch) waveguide extension ⁴⁾	J			
150 mm (6 inch) horn with 100 mm (4 inch) waveguide extension	K			
150 mm (6 inch) horn with 150 mm (6 inch) waveguide extension	L			
150 mm (6 inch) horn with 200 mm (8 inch) waveguide extension	M			
150 mm (6 inch) horn with 250 mm (10 inch) waveguide extension	N			
200 mm (8 inch) horn with 100 mm (4 inch) waveguide extension	P			
200 mm (8 inch) horn with 150 mm (6 inch) waveguide extension	Q			
200 mm (8 inch) horn with 200 mm (8 inch) waveguide extension	R			
200 mm (8 inch) horn with 250 mm (10 inch) waveguide extension	S			
(Add Order code Y01 and plain text: "waveguide length ... mm")				

