

Selection and Ordering data		Order No.
SITRANS LR400	C) 7ML5421-	
4-wire, 24 GHz FMCW radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and high pressure, to a range of 50 m (164 ft); ideal for low dielectric media.		
Order handheld programmer separately!		
Process temperature range		
-40 °C to +200 °C (-40 to +392 °F), standard		0
-40 °C to +250 °C (-40 to +482 °F), high temperature extension		1
Process connection		
<u>Universal, 0.5 bar (7.25 psi) maximum</u>		
3"/80 mm ¹⁾		A
4"/100 mm ¹⁾		B
6"/150 mm ¹⁾		D
DN 80, PN 16, Type A, flat faced		S
DN 80, PN 40, Type B1, raised face		C
DN 100, PN 16, Type A, flat faced		T
DN 100, PN 40, Type B1, raised face		G
DN 150, PN 16, Type A, flat faced		U
3" ASME, 150 lb, raised face		E
3" ASME, 300 lb, raised face		F
4" ASME, 150 lb, raised face		J
4" ASME, 300 lb, raised face		K
6" ASME, 150 lb, raised face		N
JIS, DN 80 10K		Q
JIS, DN 100 10K		R
JIS, DN 150 10K		V
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5, or EN 1092-1, or JIS B 2238 standard.)		
Antenna		
Horn antenna, long 93 mm (3.66") diam. for 100 mm (4") nozzles		D
Horn antenna, short 74 mm (2.91") diam. for 80 mm (3") nozzles		K
Antenna purging system		
None		0
Purging system		1
Note: Available with process connections A, B or D, only, and available for Area Classifications A or B only		
Process seal/gasket		
PTFE for -40 to +250 °C (-40 to +482 °F) flange temperatures		1
FKM for -20 to +200 °C (-4 to +392 °F) flange temperatures ⁴⁾		3
Output/Communication		
4 to 20 mA, HART		0
PROFIBUS PA		1
Power supply/cable inlet		
120 to 230 V AC		
• 2 x M20x1.5		B
• 2 x ½" NPT		C
24 V DC		
• 2 x M20x1.5		E
• 2 x ½" NPT		F
Area classification		
General Purpose, CE, CETECOM ³⁾		A
General Purpose, CSA _{us} ic, Industry Canada, FCC, CE and R&TTE		B
ATEX II 2G EEx d IIC T6; CE, R&TTE		E
ATEX II 2G EEx dem IIC T6; CE, R&TTE		F
ATEX II 2G EEx dem [ia] IIC T6; CE, R&TTE ²⁾		G
ATEX II 1/2 GD EEx d IIC T6; CE, R&TTE ³⁾		J
ATEX II 1/2 GD EEx dem IIC T6; CE, R&TTE ⁴⁾		K

Selection and Ordering data		Order No.
SITRANS LR400	C)	7ML 5 4 2 1 -
4-wire, 24 GHz FMCW radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and high pressure, to a range of 50 m (164 ft); ideal for low dielectric media.		
Order handheld programmer separately!		
ATEX II 1/2 GD EEx dem [ia] IIC T6; CE, R&TTE ^{2) and 4)}		L
ATEX II 2G EEx d IIC T6; CE, CETECOM ³⁾		M
ATEX II 2G EEx dem IIC T6; CE, CETECOM ³⁾		N
ATEX II 2G EEx dem [ia] IIC T6; CE, CETECOM ^{2) and 3)}		P
ATEX II 1/2 GD EEx d IIC T6; CE, CETECOM ^{3) and 4)}		Q
ATEX II 1/2 GD EEx dem IIC T6; CE, CETECOM ^{3) and 4)}		R
ATEX II 1/2 GD EEx dem [ia] IIC T6; CE, CETECOM ^{2), 3) and 4)}		S
FM Class I, Div. 1, Groups B, C, D; Class II/III, Div. 1, Groups E, F, G; FCC ⁴⁾		T
CSA Class I, Div. 1, Groups B, C, D; Class II/III, Div. 1, Groups E, F, G; FCC ⁴⁾		U
Local operation		
Local Display Only. Handheld programmer not included (Order programmer separately.)		2
Further designs		Order code
Please add “-Z” to Order No. and specify Order code(s).		
Manufacturer's test certificate M to DIN 55350, Part 18 and to ISO 9000		C11
Inspection Certificate Type 3.1 per EN 10204		C12
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97”)]:		Y15
Measuring-point number/identification (max. 16 characters); specify in plain text		
Instruction manual		Order No.
English	C)	7ML1998-5FH06
German	C)	7ML1998-5FH36
French	C)	7ML1998-5FH15
Multi-language Quick start manual	C)	7ML1998-5QN83
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		
Handheld programmer Intrinsically Safe, EEx ia	C)	7ML5830-2AJ
Long horn dust cover, PTFE		7ML1930-1AH
Short horn dust cover, PTFE		7ML1930-1AJ
HART modem/RS-232 (for use with a PC and SIMATIC PDM)	D)	7MF4997-1DA
HART modem/USB (for use with a PC and SIMATIC PDM)	D)	7MF4997-1DB
One metallic cable gland M20x1.5, rated -40 to +80 °C (-40 to +176 °F) for General Purpose or ATEX EEx e installations (available for HART only)		7ML1930-1AP
One metallic cable gland M20x1.5, rated -40 to +80 °C (-40 to +176 °F) with integrated shield connection (available for PROFIBUS PA)		7ML1930-1AQ
1) Available with antenna purging system option 1 only 2) Available only with power supply option E or F 3) Germany and Belgium end customers only 4) Available with process temperature range option 0 only C) Subject to export regulations AL: N, ECCN: EAR99 D) Subject to export regulations AL: N, ECCN: EAR99H		