

SITRANS L Level instruments

Continuous measurement - Radar transmitters

SITRANS LR250

Selection and Ordering data	Order No.
SITRANS LR250	C) 7ML5431-
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, to a range of 20 m (66 ft). Ideal for small vessels and low dielectric media.	
Process Connection and Antenna Material	
316L (1.4435 or 1.4404) stainless steel, PTFE emitter, FKM seal	0
316L (1.4435 or 1.4404) stainless steel, PTFE emitter, FFKM seal	1
Hastelloy C-22/2.4602, PTFE emitter, FKM seal ¹⁾	2
Hastelloy C-22/2.4602, PTFE emitter, FFKM seal ¹⁾	3
Process Connection Type	
1½" NPT (ANSI/ASME B1.20.1)	AA
1½" BSPT (EN 10226-1)	AB
1½" G (parallel thread) (EN ISO 228-1)	AC
2" NPT (ANSI/ASME B1.20.1)	AD
2" BSPT (EN 10226-1)	AE
2" G (parallel thread) (EN ISO 228-1)	AF
2" ASME, 150 lb	BA
3" ASME, 150 lb	BB
4" ASME, 150 lb	BC
2" ASME, 300 lb	CA
3" ASME, 300 lb	CB
4" ASME, 300 lb	CC
DN 50 PN16	DA
DN 80 PN16	DB
DN 100 PN16	DC
DN 50 PN40	EA
DN 80 PN40	EB
DN 100 PN40	EC
JIS 50A 10K	FA
JIS 80A 10K	FB
JIS 100A 10K	FC
(Note: Stainless steel flanges provided as flat faced; Hastelloy flanges provided as raised face. Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5, or EN 1092-1, or JIS B 2238 standard.)	
Communication/Output	
4 to 20 mA, HART	0
Enclosure/Cable inlet	
<u>Aluminum, Epoxy painted</u>	
2 x ½" NPT	0
2 x M20x1.5	1
Antenna	
1½" horn ²⁾	A
2" horn (fits 2" ASME or DN 50 nozzles)	B
3" horn (fits 3" ASME or DN 80 nozzles)	C
4" horn (fits 4" ASME or DN 100 nozzles)	D
1½" horn with 100 mm extension ²⁾	E
2" horn with 100 mm extension	F
3" horn with 100 mm extension	G
4" horn with 100 mm extension	H
(Note: Please use largest horn size possible.)	
Approvals	
General Purpose, CE, CSA, FM, FCC, R&TTE, C-Tick	A
CSA/FM Class I and II, Div. I, Groups A to G Intrinsically safe, barrier required, FCC, C-Tick	B
ATEX II 1 GD EEx ia IIC T4, Intrinsically safe, barrier required, R&TTE, C-Tick, INMETRO	C
CSA/FM Class I, Div. 2, Non-Incendive, no barrier required, FCC, C-Tick	D
Pressure rating	
Rating per pressure/temperature curves in Manual	0
0.5 bar (7.25 psi) maximum	1

Selection and Ordering data	Order No.
SITRANS LR250	C) 7ML5431-
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, to a range of 20 m (66 ft). Ideal for small vessels and low dielectric media.	
Further designs	Order code
Please add "-Z" to Order No. and specify Order code(s).	
Acceptance test certificate: 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")]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15
Instruction manual for HART/mA device	
English	C) 7ML1998-5JE01
German	C) 7ML1998-5JE31
Note: The instruction manual should be ordered as a separate line item on the order.	
Multi-language Quick start manual	C) 7ML1998-5QX81
This device is shipped with the Siemens Milltronics manual CD containing the complete instruction manual library.	
Accessories	
Handheld programmer, Intrinsically Safe, EEx ia (LUI enabled)	C) 7ML1930-1BK
HART modem/RS-232 (for use with a PC and SIMATIC PDM)	D) 7MF4997-1DA
One metallic cable gland M20x1.5, rated -40 °C (-40 °F) to +80 °C (+176 °F) ³⁾	7ML1930-1AP
¹⁾ Not available with Process connection options AA to AF	
²⁾ for 1½" threaded connection only, max. range 10 m (32.8 ft), dK >3.	
³⁾ for Enclosure/Cable Inlet option 1 (M20x1.5) only.	
C) Subject to export regulations AL: N, ECCN: EAR99	
D) Subject to export regulations AL: N, ECCN: EAR99H	