

Selection and Ordering data

SITRANS LR250

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

316L (1.4435 or 1.4404) stainless steel, PTFE emitter, FFKM seal

Hastelloy C-22/2.4602, PTFE emitter, FKM seal¹⁾

Hastelloy C-22/2.4602, PTFE emitter, FFKM seal¹⁾

Process Connection Type

1½" NPT [(Taper), ANSI/ASME B1.20.1]²⁾

R 1½" [(BSPT), EN 10226]²⁾

G 1½" [(BSPP), EN ISO 228-1] (parallel thread)²⁾

2" NPT [(Taper), ANSI/ASME B1.20.1]

R 2" [(BSPT), EN 10226]

G 2" [(BSPP), EN ISO 228-1] (parallel thread)

2" ASME, 150 lb

3" ASME, 150 lb

4" ASME, 150 lb

2" ASME, 300 lb

3" ASME, 300 lb

4" ASME, 300 lb

DN 50 PN16

DN 80 PN16

DN 100 PN16

DN 50 PN40

DN 80 PN40

DN 100 PN40

JIS 50A 10K

JIS 80A 10K

JIS 100A 10K

(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®

PROFIBUS PA

Enclosure/Cable inlet

Aluminum, Epoxy painted

2 x ½" NPT

2 x M20x1.5

Antenna

1½" horn³⁾

2" horn (fits 2" ASME or DN 50 nozzles)

3" horn (fits 3" ASME or DN 80 nozzles)

4" horn (fits 4" ASME or DN 100 nozzles)

1½" horn with 100 mm extension²⁾

2" horn with 100 mm extension

3" horn with 100 mm extension

4" horn with 100 mm extension

(Note: Please use largest horn size possible.)

Approvals

General Purpose, CE, CSA, FM, FCC, R&TTE, C-TICK

CSA/FM Class I and II, Div. I, Groups A,B, C, D, E, F, G Intrinsically safe, barrier required, FCC, C-TICK

ATEX II 1 GD EEx ia IIC T4, Intrinsically safe, barrier required, R&TTE, C-TICK, INMETRO

CSA/FM Class I, Div. 2, Non-Incendive, no barrier required, FCC, C-TICK

Pressure rating

Rating per Pressure/Temperature curves in Manual 0.5 bar (7.25 psi) maximum

Order No.

C) 7ML5431-

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AA

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Further designs

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

Inspection Certificate Type 3.1 per EN 10204

Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 27 characters) specify in plain text

Instruction manual for HART/mA device

English

German

Note: The instruction manual 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 CD containing the complete ATEX Quick Start and instruction manual library.

Instruction manual for PROFIBUS device

English

German

Note: The instruction manual 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 CD containing the complete ATEX Quick Start and instruction manual library.

Accessories

Handheld programmer, Intrinsically Safe, EEx ia (LUI enabled)

HART modem/RS-232 (for use with a PC and SIMATIC PDM)

One metallic cable gland M20x1.5, rated -40 to +80 °C (-40 to +176 °F)

¹⁾ Not available with process connection options AA to AF

²⁾ For 1½" horn antennas only, max. range 10 m (32.8 ft), dk > 3

³⁾ For 1½" threaded connection only, max. range 10 m (32.8 ft), dk > 3

C) Subject to export regulations AL: N, ECCN: EAR99

D) Subject to export regulations AL: N, ECCN: EAR99H

Order No.

C) 7ML5431-

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3

Order code

C11

C12

Y15

Order No.

C) 7ML1998-5JE01

C) 7ML1998-5JE31

C) 7ML1998-5QX81

C) 7ML1998-5JF01

C) 7ML1998-5JF31

C) 7ML1998-5XE81

C) 7ML1930-1BK

D) 7MF4997-1DA

7ML1930-1AP