#### Overview



SITRANS LR250 is a 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).

#### Benefits

- Graphical local user interface (LUI) makes operation simple with plug-and-play setup using the intuitive Quick Start Wizard
- · LUI displays echo profiles for diagnostic support
- 25 GHz high frequency allows for small antennas for easy mounting in nozzles
- Insensitive to mounting location and obstructions, and less sensitive to nozzle interference
- Short blanking distance for improved minimum measuring range to 50 mm (2") from the end of the antenna
- Communication using HART or PROFIBUS PA, or FOUNDATION Fieldbus
- Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions
- Programming using infrared Intrinsically Safe handheld programmer or over a network using SIMATIC PDM, Emerson AMS, or Field Device Tools, such as PACTware or Fieldcare via SITRANS DTM
- Suitable for use in safety related systems in accordance with IEC 61508/61511 (SIL-2)

#### Application

SITRANS LR250 includes a graphical local user interface (LUI) that improves setup and operation by including an intuitive Quick Start Wizard, and echo profile displays for diagnostic support. Startup is easy using the Quick Start wizard with a few parameters required for basic operation.

The 25 GHz frequency creates a narrow, focused beam allowing for smaller antenna options and decreasing sensitivity to obstructions.

SITRANS LR250's unique design allows safe and simple programming using the Intrinsically Safe handheld programmer without having to open the instrument's lid.

SITRANS LR250 measures superbly on low dielectric media, and in small vessels, as well as tall and narrow vessels.

 Key Applications: liquid bulk storage tanks, process vessels with agitators, vaporous liquids, high temperatures, low dielectric media

### Configuration

#### Installation

#### Note:

- Beam angle is the width of the cone where the energy density is half of the peak energy density.
- The peak energy density is directly in front of and in line with the horn antenna.
  There is a signal transmitted
- outside of the beam angle; therefore false targets may be detected.

#### Mounting unit on bypass





**SITRANS LR250** 

Mounting unit on stilling well

Orient front or back of device toward stillpipe slots.



Mounting unit on vessel

Mounting on a nozzle



SITRANS LR250 installation, dimensions in mm (inch)

#### SITRANS LR250

Mode of operation		<ul> <li>Dimensions (nominal horn sizes</li> </ul>
Measuring principle	Radar level measurement	
Frequency	K-band (25.0 GHz)	
Minimum measuring range	50 mm (2") from end of antenna	Process connections
Maximum measuring range	20 m (65 ft), antenna dependent	Process connection
Output		
HABT <sup>®.</sup>	Version 5.1	
Analog output	4 20 mA	
Accuracy	±0.02 mA	<ul> <li>Flange connection</li> </ul>
• Fail-safe	<ul> <li>Programmable as high low or</li> </ul>	
	hold (loss of echo) • NE 43 programmable	Power supply
PROFIBUS PA:	Profile 3.1	4 20 mA/HART
Function blocks	2 Analog Input (AI)	PROFIBUS PA
FOUNDATION Fieldbus <sup>TM</sup>	H1	
Functionality	Basic or LAS	FOUNDATION Fieldbus
Version	ITK 5.2.0	Certificates and approvals
Function blocks	2 Analog Input (AI)	General
Performance (according to		Radio
reference conditions IEC60770-1)		Hazardous
Maximum measured error	5 mm (0.2")	<ul> <li>Intrinsically Safe (Europe)</li> </ul>
Influence of ambient temperature	<0.003 %/K	
Rated operating conditions		Non-sparking/Energy Limited     (Europo)
Installation conditions		(Europe) • Intrinsically Safe (Canada/USA)
Location	Indoor/outdoor	
Ambient conditions (enclosure)		<ul> <li>Non-incendive (Canada/USA)</li> </ul>
<ul> <li>Ambient temperature</li> </ul>	-40 +80 °C (-40 +176 °F)	
<ul> <li>Installation category</li> </ul>	I	<ul> <li>Intrinsically Safe (International)</li> </ul>
Pollution degree	4	<ul> <li>Intrinsically Safe (Brazil)</li> </ul>
Medium conditions		<ul> <li>Flame Proof (International/Europ</li> </ul>
Dielectric constant ε <sub>r</sub>	$\epsilon_r > 1.6$ , antenna and application dependent	<ul> <li>Increased Safety</li> </ul>
Process temperature	-40 +200 °C (-40 +392 °F)	(International/Europe)
	(at process connection with FKM o-ring)	Increased Safety (Brazil)
	-20 +200 °C (-4 +392 °F) (at process connection with	• Explosion Proof (Canada/USA)
	FFKM o-ring)	
Process pressure	Up to 40 bar g (580 psi g), pro-	• Explosion Proof (Brazil)
	cess connection and tempera- ture dependent.	Marine
	See Pressure/Temperature cur-	
Design	ves for more information	Functional Safety
Design Enclosure		
Material	Aluminium, polyester powder-	
- maichai	coated	
Cable inlet	2 x M20x1.5 or 2 x ½" NPT	
Degree of protection	Type 4X/NEMA 4X, Type 6/NEMA 6, IP67, IP68	
Weight	< 3 kg (6.6 lbs) 3.75 mm (1½") threaded connection with 1½" horn antenna	
Display (local)	Graphic local user interface inclu- ding quick start wizard and echo profile display	
Antenna		
Material	316L stainless steel [optional alloy N06022/2.4602 (Hastelloy <sup>®</sup> C-22 <sup>®</sup> or equivalent)]	

ominal horn sizes)	Standard 1.5" (40 mm), 2" (48 mm), 3" (75 mm), 4" (95 mm) horn and optional 100 mm (4") horn extension
tions	
ection	11½" or 2" NPT [(Taper), ANSI/ASME B1.20.1] R 1½" or 2" [(BSPT), EN 10226] G 1½" or 2" [(BSPP), EN ISO 228-1]
otion	2", 3", 4" (ANSI 150, 300 lbs), 50, 80, 100 mm (PN 16, 40, JIS 10K)
Т	Nominal 24 V DC (max. 30 V DC) with max. 550 Ω • 15 mA
	• per IEC 61158-2
ieldbus	• 20.0 mA • per IEC 61158-2
d approvals	
	CSA <sub>US/C</sub> , CE, FM, NE 21, C-TICK FCC, Industry Canada and Europe ETSI EN 302-372, C-TICK
fe (Europe)	ATEX II 1G Ex ia IIC T4 ATEX II 1D Ex tD A20 IP67 T90°C
Energy Limited	ATEX II 3G Ex nA/nL IIC T4 Gc
fe (Canada/USA)	CSA/FM Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III T4
e (Canada/USA)	CSA/FM Class I, Div. 2, Groups A, B, C, D T5
fe (International)	IECEx Ex ia IIC T4, Ex tD A20 IP67 T90°C
fe (Brazil) hternational/Europe)	INMETRO Br-Ex ia IIC T4 IECEx/ATEX II 1/2 GD, 1D, 2D, Ex dmbia IIC T4 Ga/Gb, Ex tD A20 IP67 T90°C
ety Europe)	IECEx/ATEX II 1/2 GD, 1D, 2D, Ex embia IIC T4 Ga/Gb, Ex tD A20 IP67 T90°C
iety (Brazil) of (Canada/USA)	INMETRO Br-Ex embia IIC T4 CSA/FM Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III T4
of (Brazil)	INMETRO Br-Ex dmbia IIC T4 • Lloyd's Register of Shipping • ABS Type Approval • Bureau Veritas
у	SIL-2 suitable in accordance with IEC 61508/61511

	<b>I D D</b>	1-MA
I N V A L	LR2	HO 1 U J

Programming	
Intrinsically Safe Siemens handheld	Infrared receiver
programmer	
<ul> <li>Approvals for handheld programmer</li> </ul>	IS model: ATEX II 1 GD Ex ia IIC T4 Ga Ex ia D 20 T135°C Ta = -20 +50 °C CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G, T6 Ta = +50 °C IECEx SIR 09.0073
Handheld communicator PC	HART communicator 375/475 • SIMATIC PDM • Emerson AMS • SITRANS DTM (for connection into FDT, such as PACTware or
Display (local)	Fieldcare) Graphic local user interface inclu- ding quick start wizard and echo profile displays

<sup>®</sup>HART is a registered trademark of the Hart Communications Foundation. <sup>TM</sup>FOUNDATION Fieldbus is a trademark of Fieldbus Foundation.

<sup>®</sup>Hastelloy and <sup>®</sup>C-22 are registered trademarks of Haynes International Inc.

#### **SITRANS LR250**

Selection and Ordering data	Ordor No		
Selection and Ordering data	Order No.		
SITRANS LR250 C) 2-wire, 25 GHz pulse radar level transmitter for con- tinuous 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.	7 M L 5 4 3 1 -		
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, FKM seal Hastelloy C-22/2.4602, PTFE emitter, FKM seal <sup>1) 2)</sup> Hastelloy C-22/2.4602, PTFE emitter, FKM seal <sup>1) 2)</sup> Process Connection Type 1½" NPT [(Taper), ANSI/ASME B1.20.1] <sup>3)</sup> R 1½" [(BSPT), EN 10226] <sup>2)</sup> G 1½" [(BSPP), EN ISO 228-1] (parallel thread) <sup>3)</sup> 2" NPT [(Taper), ANSI/ASME B1.20.1] R 2" [(BSPP), EN ISO 228-1] (parallel thread) 2" Class 150 ASME B16.5 flat faced <sup>4)</sup> 3" Class 150 ASME B16.5 flat faced <sup>4)</sup> 4" Class 150 ASME B16.5 flat faced <sup>4)</sup> 3" Class 300 ASME B16.5 flat faced <sup>4)</sup> 4" Class 300 ASME B16.5 flat faced <sup>4)</sup> 3" Class 300 ASME B16.5 flat faced <sup>4)</sup> 4" Class 300 ASME B16.5 flat faced <sup>4)</sup> DN 50 PN 16 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 16 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 40 EN 1092-1 Type A flat faced <sup>4)</sup> DN 50 PN 16 DIN EN1092-1 Type B1 raised face DN 100 PN 16 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face DN 100 PN 40 DIN EN1092-1 Type B1 raised face	0 1 2 3 A A A B A C A D A E A F B A B B B C C A C B C C D A D B D C E A E B E C F A F B F C G A G B G C G D H A H B H C H D		
Communication/Output PROFIBUS PA 4 20 mA, HART <sup>®</sup> , startup at < 3.6 mA FOUNDATION Fieldbus <sup>TM</sup>	1 2 3		
Enclosure/Cable inlet Aluminum, Epoxy painted 2 x ½" NPT 2 x M20x1.5	0 1		
Antenna 1½" horn <sup>5</sup> ) 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 extension <sup>5</sup> ) 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.)	A C D E F G H		

Selection and Ordering data	Order No.	
SITRANS LR250	C) 7 M L 5 4 3 1 -	
2-wire, 25 GHz pulse radar level transmitter for con- tinuous 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.	0 -	
Approvals General Purpose, CE, CSA, FM, FCC, R&TTE, C-TICK	A	
Intrinsically Safe, CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G, FCC	В	;
Intrinsically Safe, IECEx/ATEX II 1 GD Ex ia IIC T4, Ex tD A20 IP67 T90°C, R&TTE, C-TICK, INMETRO Br-Ex ia IIC T4	с	;
Non-incendive, CSA/FM Class I, Div. 2, Groups A, B, C, D, FCC	D	)
Non-sparking, Energy Limited, ATEX II 3G Ex nA/nL IIC T4, CE, R&TTE, C-TICK	E	
Increased Safety, IECEx/ATEX II 1/2 GD Ex embia IIC T4, Ex tD A20 IP67 T90°C, CE, R&TTE, C-TICK, , INMETRO Br-Ex embia IIC T4 <sup>6)</sup>	F	
Flame Proof, IECEx/ATEX II 1/2 GD Ex dmbia IIC T4, Ex tD A20 IP67 T90°C, CE, R&TTE, C-TICK, INMETRO BR-Ex dmbia IIC T4 <sup>6)</sup>	G	ì
Explosion Proof CSA/FM Class I, II, III, Div. 1, Gr. A, B, C, D, E, F, G, FCC <sup>6)</sup>	н	
<b>Pressure rating</b> Rating per Pressure/Temperature curves in manual 0.5 bar g (7.25 psi g) maximum		0 1
<ol> <li>Not available with process connection options AA to .</li> <li>Hastelloy flanges are provided as raised face.</li> <li>For 1½<sup>a</sup> horn antennas only, max. range 10 m (32.8 ft</li> <li>Siemens Milltronics type flange (flange bolting pattern sionally correspond to the applicable ASME B16.5, or</li> </ol>	), dk > 3 is and facings dim	

sionally correspond to the applicable ASME B16.5, or EN 1092-1, or v 2220 standard), see operating instructions for details
<sup>5)</sup> For 1½\* threaded connection only, max. range 10 m (32.8 ft), dk > 3
<sup>6)</sup> Applicable to Communication option 2 only 1, or JIS

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

Selection and Ordering data		Order code				
Further designs	_					
Please add "-Z" to Order No. and specify Order code(s).						
Plug M12 with mating Connector <sup>1) 2) 3)</sup>		A50				
Plug 7/8" with mating Connector <sup>2) 3) 4)</sup>		A55				
Stainless steel tag [69 x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 27 characters); specify in plain text	Y15					
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				
Functional Safety - SIL2 suitable in accordance with IEC 61508/61511 <sup>3) 5)</sup>		C20				
Namur NE43 compliant, device preset to failsafe <3.6 mA <sup>5)</sup>		N07				
Operating Instructions for HART/mA device		Order No.				
English	C)	7ML1998-5JE03				
German	C)	7ML1998-5JE33				
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 CD containing the complete ATEX Quick Start and Operating Instructions library.		7ML1998-5QX82				
Operating Instructions for PROFIBUS PA device						
English	C)	7ML1998-5JF03				
German	C)	7ML1998-5JF33				
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 CD containing the complete ATEX Quick Start and Operating Instructions library.		7ML1998-5XE82				
Operating Instructions for FOUNDATION Field- bus device						
English	C)	7ML1998-5KL01				
German	C)	7ML1998-5KL31				
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 CD containing the complete ATEX Quick Start	C)	7ML1998-5XN81				

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and Operating Instructions library.

#### **SITRANS LR250**

Accessories	
Handheld programmer, Intrinsically safe, EEx ia C	7ML1930-1BK
HART modem/RS-232 (for use with a PC and D SIMATIC PDM)	7MF4997-1DA
HART modem/USB (for use with a PC and D SIMATIC PDM)	7MF4997-1DB
One metallic cable gland M20x1.5, rated -40 +80 °C (-40 +176 °F), HART	7ML1930-1AP
One metallic cable gland M20x1.5, rated -40 +80 °C (-40 +176 °F), PROFIBUS PA and FOUNDATION Fieldbus^{6)}	7ML1930-1AQ
SITRANS RD100 Remote display - see Chapter 8	
SITRANS RD200 Remote display - see Chapter 8	
SITRANS RD500 web, datalogging, alarming, ethernet, and modem support for instrumentation - see Chapter 8	
<ol> <li>Available with Enclosure option 1 only</li> <li>To be used with Communication options 1 and 3 only. Connector has IP67 rating.</li> <li>Available with Approvals option A, B, or C only</li> <li>Available with Enclosure option 0 only</li> <li>Applicable to Communication option 2 only</li> </ol>	

<sup>6)</sup> For use with Communication option 1 and 3 only

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

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

#### SITRANS LR250 Specials

SITRANS LR250 Specials			SITRANS LR250 Specials		
		Order No.			Order No.
SITRANS LR250 Enclosures (PROFIBUS PA models)			SITRANS LR250 Enclosures (<3.6mA start-up HART models)		
LR250 enclosure with board stack, NPT cable inlet, approval option A, with PROFIBUS PA communication,	C)	A5E01156836	LR250 enclosure with board stack, M20 cable inlet, approval option A, with HART <sup>®</sup> communication start-up at <3.6mA, no process connection	C)	A5E02956317
no process connection LR250 enclosure with board stack, M20 cable inlet, approval option A, with DPOFIDUE DA comprusing to the	C)	A5E01156838	LR250 enclosure with board stack, M20 cable inlet, approval option C, with HART <sup>®</sup> communica- tion start-up at <3.6mA, no process connection	C)	A5E02956319
PROFIBUS PA communication, no process connection LR250 enclosure with board stack,	C)	A5E01156839	LR250 enclosure with board stack, M20 cable inlet, approval option E, with HART <sup>®</sup> communication start-up at <3.6mA, no process connection	C)	A5E02956320
NPT cable inlet, approval option B, with PROFIBUS PA communication, no process connection			LR250 enclosure with board stack, M20 cable inlet, approval option F, with HART <sup>®</sup> communication start-up at <3.6mA, no process connection	C)	A5E02956322
LR250 enclosure with board stack, M20 cable inlet, approval option B, with PROFIBUS PA communication, no process connection	C)	A5E01156841	LR250 enclosure with board stack, M20 cable inlet, approval option G, with HART <sup>®</sup> communica- tion start-up at <3.6mA, no process connection		A5E02956323
LR250 enclosure with board stack, NPT cable inlet, approval option C, with PROFIBUS PA communication, no process connection	C)	A5E01156843	SITRANS LR250 Enclosures (4 to 20 mA HART models prior to October 2010)		
LR250 enclosure with board stack, M20 cable inlet, approval option C, with PROFIBUS PA communication, no process connection	C)	A5E01156844	LD250 applaques with board stack	(	A5E01156819
LR250 enclosure with board stack, M20 cable inlet, approval option C, with PROFIBUS PA communication,	C)	A5E01156846	LR250 enclosure with board stack, NPT cable inlet, approval option A, with HART communication, no process connection	,	
no process connection LR250 enclosure with board stack,	C)	A5E01156848	LR250 enclosure with board stack, M20 cable inlet, approval option A, with HART communication, no process connection	,	A5E01156820
M20 cable inlet, approval option D, with PROFIBUS PA communication, no process connection			LR250 enclosure with board stack, NPT cable inlet, approval option B, with HART communication, no process connection	C)	A5E01156823
SITRANS LR250 Enclosures (FOUNDATION bus models)	Field-		LR250 enclosure with board stack, M20 cable inlet, approval option B, with HART communication, no process connection	C)	A5E01156824
			LR250 enclosure with board stack, NPT cable inlet, approval option C, with HART communication, no process connection	C)	A5E01156827
LR250 enclosure with board stack, NPT cable inlet, approval option A, with	C)	A5E02653792	LR250 enclosure with board stack, M20 cable inlet, approval option C, with HART communication, no process connection	C)	A5E01156832
FOUNDATION Fieldbus communication, no process connection LR250 enclosure with board stack,	C)	A5E02653793	LR250 enclosure with board stack, NPT cable inlet, approval option D, with HART communication, no process connection	C)	A5E01156834
M20 cable inlet, approval option A, with FOUNDATION Fieldbus communication, no process connection			LR250 enclosure with board stack, NPT cable inlet, approval option D, with HART communication, no process connection	C)	A5E01156835
LR250 enclosure with board stack, NPT cable inlet, approval option C, with FOUNDATION Fieldbus communication, no process connection	C)	A5E02654606	LR250 enclosure with board stack, M20 cable inlet, approval option F, with HART <sup>®</sup> communication, no process connection	C)	A5E02448270
LR250 enclosure with board stack, M20 cable inlet, approval option C, with FOUNDATION Fieldbus communication,	C)	A5E02654608	LR250 enclosure with board stack, M20 cable inlet, approval option G, with HART <sup>®</sup> communication, no process connection	C)	A5E02448274
no process connection			LR250 enclosure with board stack, NPT cable inlet, approval option H, with HART <sup>®</sup> communication, no process connection	C)	A5E02448278

#### SITRANS LR250 Specials

SITRANS	LR250	Specials
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		Order No.
SITRANS LR250 horn antenna and extension kits		
38 mm (1.5") horn antenna kit, 1.5" Process Connections only	C)	A5E01151539
100 mm (4") horn antenna extension kit, 1.5" Process Connections only		A5E01151553
50 mm (2") stainless steel 316L horn antenna kit	C)	A5E01151569
75 mm (3") stainless steel 316L horn antenna kit	C)	A5E01151571
100 mm (4") stainless steel 316L horn antenna kit	C)	A5E01151573
100 mm (4") horn antenna extension kit, 50 mm (2"), 75 mm (3") and 100 mm (4") process connec- tion	C)	A5E01151577
50 mm (2") horn antenna kit, Hastelloy C-22	J)	A5E01151584
75 mm (3") horn antenna kit, Hastelloy C-22	J)	A5E01151585
100 mm (4") horn antenna kit, Hastelloy C-22	J)	A5E01151587
5 Dupont 1Gr Polyback, PTFE grease kit	C)	A5E01151626
LR250 lid with O-ring		A5E02465410
C) Subject to export regulations AL: N, ECCN: EAR99	99	

J) Subject to export regulations AL: 91999, ECCN: EAR99 Please contact <u>nacc.smpi@siemens.com</u> for special requests

#### SITRANS LR250 Specials

#### Characteristic curves



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SITRANS LR250 Ambient/Process Flange Surface Temperature Curve

#### **SITRANS LR250 Specials**

#### Dimensional drawings



Size		Ũ			Range
40 (1.5)	39.8 (1.57)	А	135 (5.3)	19 degrees	10 m (32.8 ft)
50 (2)	47.8 (1.88)	В	166 (6.55)	15 degrees	20 m (65.6 ft)
80 (3)	74.8 (2.94)	С	199 (7.85)	10 degrees	20 m (65.6 ft)
100 (4)	94.8 (3.73)	D	254 (10)	8 degrees	20 m (65.6 ft)

SITRANS LR250, dimensions in mm (inch)

#### SITRANS LR250 Specials

#### Schematics



#### Notes:

- 1. DC terminal shall be supplied from a source providing electrical isolation between the input and output, to meet the applicable safety requirements of IEC 61010-1.
- 2. All field wiring must have insulation suitable for rated input voltages.
- 3. Use shielded twisted pair cable (14 to 22 AWG) for HART version.
- 4. Separate cables and conduit may be required to conform to standard instrumentation wiring practices or electrical codes.

SITRANS LR250 connections





## burkert









A rotork Brand

Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product rangerepresenting leading technologies & brands:

**Flow:** Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

**Temperature:** Temperature Probes & Thermowells, Temperature ransmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

**Pressure:** Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

**Precision Pneumatics:** Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

**Valves:** Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

**Services:** Repair, Calibration, Panel Build, System Design & Commissioning



### A rotorik Brand



### Honeywell



Baumer Group









Fine Controls (UK) LTD, Bassendale Road, Croft Business Park, Bromborough, Wirral, CH62 3QL UK Tel: 0151 343 9966 Email: sales@finecontrols.com