Continuous level measurement Radar level transmitters

www.gotautomations.com **GreatOrientalTrading**

SITRANS Probe LR

Overview



SITRANS Probe LR is a 2-wire, 6 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage vessels with nominal pressure and temperature, to a range of 20 m (66 ft).

Benefits

- Uni-Construction polypropylene rod antenna standard
- Easy installation and simple startup
- Programming using infrared Intrinsically Safe handheld programmer, SIMATIC PDM or HART handheld communicator
- Communication using HART
- Process Intelligence signal processing
- Auto False-Echo Suppression of false echoes

Application

The Probe LR is ideal for applications with chemical vapors, temperature gradients, vacuum or pressure, such as simple chemical storage or water treatment vessels. SITRANS Probe LR has a range of 0.3 to 20 m (1 to 65 ft).

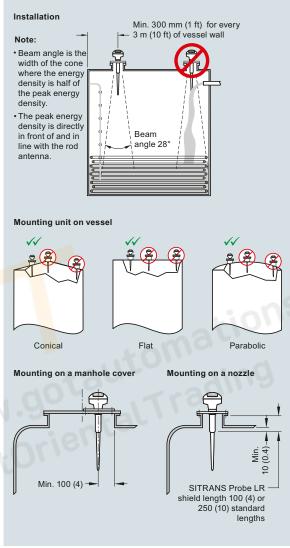
Probe LR is designed for safe and simple programming using the Intrinsically Safe handheld programmer without having to open the instrument's lid. It has a standard Uni-Construction polypropylene rod antenna that offers excellent chemical resistance and is hermetically sealed. The Uni-Construction antenna includes an internal, integrated shield that eliminates vessel nozzle interference.

SITRANS Probe LR incorporates Process Intelligence signal processing. The Probe LR also has a high signal-to-noise ratio leading to improved reliability.

Startup is easy with as few as two parameters for basic operation. Programming is simple using SIMATIC PDM, HART handheld communicator or the Intrinsically Safe handheld program-

· Key Applications: chemical storage, wastewater wet well, and drilling mud

Configuration



SITRANS Probe LR installation, dimensions in mm (inch)

Continuous level measurement Radar level transmitters

SITRANS Probe LR

Technical specifications

recillical specifications	
Mode of operation	
Measuring principle	Pulse radar level measurement
Frequency	C-band, approx. 6 GHz
Measuring range	0.3 20 m (1.0 65 ft)
Output	
Analog output	4 20 mA
Accuracy	± 0.02 mA
Span	Proportional or inversely proportional
Communications	HART
Performance (reference conditions)	
Accuracy • From end of antenna to 600 mm	± the greater of 0.1 % of range or 10 mm (0.4 inch)
(23.62 inch)	40 mm (1.57 inch)
 Remainder of range 10 mm (0.4 inch) or 0.1 % of span (whichever is greater) 	10 mm (0.4 inch) or 0.1 % of span (whichever is greater)
Influence of ambient temperature	0.003 %/K
Repeatability	± 5 mm (2 inch)
Fail-safe	mA signal programmable as high, low or hold (LOE)
Rated operating conditions	
Installation conditions Location	Indoor/outdoor
Ambient conditions (enclosure)	
Ambient temperature	-40 +80 °C (-40 +176 °F)
Storage temperature Installation category	-40 +80 °C (-40 +176 °F)
Pollution degree	4
Medium conditions	
Dielectric constant ε _r	> 3.0
Vessel temperature	-40 + <mark>80 °</mark> C (-40 +176 °F)
Vessel pressure	3 bar g (43.5 psi g)
Design	
Enclosure	
Body construction Lid construction	PBT (Polybutylene Terephthalate) PEI (Polyether Imide)
Cable inlet	2 x M20 x 1.5 or 2 x ½" NPT with adapter
Degree of protection	Type 4X/NEMA 4X, Type 6/NEMA 6, IP67, IP68
Weight	1.97 kg (4.35 lb)
Antenna	
Material	Polypropylene rod, hermetically sealed construction
• Dimensions	Standard 100 mm (4 inch) shield for maximum 100 mm (4 inch) nozzle or optional 250 mm (10 inch) long shield
Process connections	1½" NPT [(Taper), ANSI/ASME B1.20.1] R 1½" [(BSPT), EN 10226] G 1½" [(BSPP), EN ISO 228-1]

t	Power supply	 Nominal 24 V DC with max. 550 Ω, maximum 30 V DC 4 20 mA
	Certificates and approvals	
	General	CSA _{US/C} , CE, FM, RCM
	Marine	Lloyd's Register of ShippingABS Type Approval
	Radio	FCC, Industry Canada, RED, RCM
ortional	Hazardous • Intrinsically Safe (Brazil) • Intrinsically Safe (Canada)	INMETRO Ex ia IIC T4 Ga CSA Class I, Div. 1, Groups A, B, C,
e or	Intrinsically Safe (Europe) Intrinsically Safe (International) Intrinsically Safe (Russia/Kazakhstan)	D; Class II, Div. 1, Group G; Class III ATEX II 1G EEx ia IIC T4 IECEx Ex ia IIC T4 EAC Ex ia
pan	Intrinsically Safe (USA)	FM Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III
	Programming	
	Handheld programmer	HART communicator 375
igh,	PC	SIMATIC PDM
	Intrinsically safe Siemens handheld programmer (optional)	Infrared receiver
	Approvals (handheld programmer)	ATEX II 1G EEx ia IIC T4 CSA and FM Class I, Div. 1, Groups A, B, C, D, T6 at max. ambient
	Display (local)	Multi-segment alphanumeric liquid crystal with bar graph (representing level) available in four languages
V		
uto)		
ite)		
th		
MA 6		

Continuous level measurement Radar level transmitters

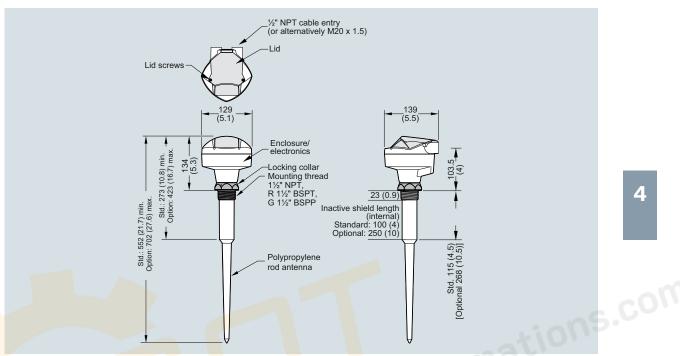
SITRANS Probe LR

see Chapter 7 For applicable back up point level switch - see point level measurement section Spare parts see Chapter 7 For applicable back up point level switch - see point level measurement section	Continuous, non-contact, 20 m (66 ft) range, or liquids and sluries. 7 Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 8 Inclosure/Cable inlet Plastic, (PBT), 2 x ½* NPT Plastic, (PBT), 2 x X NPT Plastic,	Selection and ordering data	Article No.		Order code
1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration in the PIA Life Cycle Portal. 1º Click on the Article No. for the online configuration (max. 27 characters) specify in plain text Manufacturer's test certificate. Mr to DIN 55350, C11 Manufactu	**Indicides and slurries.** **O Click on the Article No. for the online configuration in the PIA Life Cycle Portal.** **Inclosure/Cable inlet** **Lastic. (PBT). 2 x ½" NPT	ITRANS Probe LR Radar level transmitter	7ML 3 430-	Further designs	
configuration in the PIA Life Cycle Portal. inclosure/Cable inlet lastic, (PBT), 2 x ½* NPT lastic, 2 x ½* NPT lastic	configuration in the PIA Life Cycle Portal. cinclosure/Cable inlet lastic, (PBT), 2 x ½* NPT lastic, 2 x				
Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	All literature is est certificate: M to DIN 55350, Part 18 and to ISO 9000 Operating Instructions All literature is available to download for free, in a range of languages, at languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at literature is available to download for free, in a range of languages, at languages, at literature is available to download for free, in a languages, at languages, at literature is available to download for free, in a languages, at la			Measuring-point number/identification	Y15
A wintenna type/Material - (max. 3 bar and 80 °C) Volypropylene antenna Var NPT ((Taper), ANSI/ASME B1.20.1), vomes with integral 100 mm shield Var ((BSPT), EN 10228), vomes with integral 100 mm shield Var ((BSPP), EN ISO 228-1), vomes with integral 100 mm shield Var ((BSPP), EN ISO 228-1), vomes with integral 250 mm shield Var ((BSPP), EN ISO 228-1), vomes with integr	A Milterature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation A Milterature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation A Milterature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation Accessories A Milterature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation Accessories C Handheld programmer, Intrinsically Safe, ATEX II 16, Ex ia HART modem/USB (for use with a PC and SIMATIC PDM) One metallic cable gland M20 x 15, one with integral 250 mm shield If with (IgSPT), EN 150 228-1], one with integral 250 mm shield If with (IgSPP), EN ISO 228-1], one with integral 250 mm shield If with (IgSPP), EN ISO 228-1], one with integral 250 mm shield If with (IgSPP), EN ISO 228-1], one with integral 250 mm shield If with (IgSPP), EN ISO 228-1], one with integral 250 mm shield If with (IgSPP), EN ISO 228-1], one with integral 250 mm shield If with (IgSPP), EN ISO 228-1], one metallic cable gland M20 x 15, one metallic cable gland	Plastic, (PBT), 2 x ½" NPT		Manufacturer's test certificate:M to DIN 55350,	C11
Notifypropylene antenna 1/2* NPT [(Taper), ANSI/ASME B1.20.1], omes with integral 100 mm shield 1/2* ([BSPP), EN 10226], omes with integral 100 mm shield 1/2* ([BSPP), EN 10226], omes with integral 100 mm shield 1/2* ([BSPP), EN 10226], omes with integral 100 mm shield 1/2* NPT [(Taper), ANSI/ASME B1.20.1], omes with integral 250 mm shield 1/2* NPT [(Taper), ANSI/ASME B1.20.1], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/2* ([BSPP), EN 10226], omes with integral 250 mm shield 1/3* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes with integral 250 mm shield 1/4* ([BSPP), EN 10226], omes wi	All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation Accessories Article No. Accessories Article No. Accessories Article No. All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation Accessories Article No. Accessories Article No. Handheld programmer, Intrinsically Safe, ATEX II 1G, Ex ia HART modem/USB (for use with a PC and SIMATIC PDM) One metallic cable gland M20 x 1.5, rated -40 +80 °C (-40 +176 °F) SITRANS RD150, remote digital display for 4 20 mA and HART devices - 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 For applicable back up point level switch - see point level measurement section All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation Accessories Article No. Handheld programmer, Intrinsically Safe, ATEX II 1G, Ex ia HART modem/USB (for use with a PC and SIMATIC PDM) One metallic cable gland M20 x 1.5, 7ML1930-1AP Tated -40 +80 °C (-40 +176 °F) SITRANS RD150, remote digital display for 4 20 mA and HART devices - 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 For applicable back up point level switch - see point level measurement section Space Parts		_2		
http://www.siemens.com/processinstrumentation/documentation http://www.siemens.com/processinstrumentation/documentation Accessories Article No. Accessories Accessories Article No. Accessories Article No. Accessories Article No. Accessories Article No. Accessories Accessories Article No. Accessories Article No. Accessories	http://www.siemens.com/processinstrumentation/documentation http://gspr), EN 10226], bright integral 100 mm shield 1½* [(BSPP), EN ISO 228-1], bright integral 100 mm shield 2½* NPT ((Taper), ANSI/ASME B1.20.1], bright integral 250 mm shield 1½* [(BSPP), EN 10226], bright integral 250 mm shield 1½* (BSPP), EN 102	olypropylene antenna	Δ.	All literature is available to download for free, in a	
Accessories Article No. Artic	Article No. 3 1/8' [(BSPP), EN ISO 228-1], 50 mes with integral 100 mm shield 6 1/8' NPT [(Taper), ANSI/ASME B1.20.1], 50 mes with integral 250 mm shield 7 NPT [(Taper), ANSI/ASME B1.20.1], 50 mes with integral 250 mm shield 8 1/8' [(BSPT), EN 10226], 50 mes with integral 250 mm shield 8 1/8' [(BSPP), EN ISO 228-1], 50 mes with integral 250 mm shield 6 1/8' [(BSPP), EN ISO 228-1], 50 mes with integral 250 mm shield 6 1/8' [(BSPP), EN ISO 228-1], 50 mes with integral 250 mm shield 7 MF4997-1DB 8 (for use with a PC and SIMATIC PDM) 9 One metallic cable gland M20 x 1.5, 7 rated -40 +80 °C (-40 +176 °F) 9 SITRANS RD100, loop powered display - 9 see Chapter 7 9 SITRANS RD150, remote digital display for 9 4 20 mA and HART devices - see Chapter 7 9 SITRANS RD200, universal input display with 9 Modbus conversion - see Chapter 7 9 SITRANS RD300, dual line display with totalizer 9 and linearization curve and Modbus conversion - 9 see Chapter 7 9 For applicable back up point level switch - 9 see point level measurement section Article No. 7 ML5830-2AH 7 MF4997-1DB 7	comes with integral 100 mm shield		http://www.siemens.com/processinstrumentation/doc	cumentation
Thz* [(BSPP), EN ISO 228-1], Dromes with integral 100 mm shield by* NPT [(Taper), ANSI/ASME B1.20.1], Dromes with integral 250 mm shield 1½* [(BSPT), EN 10226], Dromes with integral 250 mm shield 1½* [(BSPP), EN ISO 228-1], Dromes with integral 250 mm shield 1½* [(BSPP), EN ISO 228-1], Dromes with integral 250 mm shield 1½* [(BSPP), EN ISO 228-1], Dromes with integral 250 mm shield 1½* [(BSPP), EN ISO 228-1], Dromes with integral 250 mm shield 1½* [(BSPP), EN ISO 228-1], Dromes with integral 250 mm shield F F F F F A B C SITRANS RD100, loop powered display - see Chapter 7 SITRANS RD150, remote digital display for 4 20 mA and HART devices - 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 For applicable back up point level switch - see point level measurement section Spare parts	This is a common shield of the		В	Accessories	Article No.
TMF4997-1DB TMF497-1DB TMF4997-1DB TMF497-1LB TMF4	omes with integral 250 mm shield 11/2* [(BSPT), EN 10226], omes with integral 250 mm shield 11/2* [(BSPP), EN 10226], omes with integral 250 mm shield 11/2* [(BSPP), EN 180 228-1], omes with integral 250 mm shield 11/2* [(BSPP), EN 180 228-1], omes with integral 250 mm shield 11/2* [(BSPP), EN 180 228-1], omes with integral 250 mm shield 11/2* [(BSPP), EN 180 228-1], omes with integral 250 mm shield 12/2* [(BSPP), EN 180 228-1], omes with integral 250 mm shield 13/2* [(BSPP), EN 180 228-1], omes with integral 250 mm shield 15/2* [(BSPP), EN 180 228-1], one metallic cable gland M20 x 1.5, rated -40 +80° °C (-40 +176° °F) SITRANS RD100, loop powered display - see Chapter 7 SITRANS RD150, remote digital display for 4 20 mA and HART devices - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 For applicable back up point level switch - see point level measurement section 11 Spare parts	6 1½" [(BSPP), EN ISO 228-1], omes with integral 100 mm shield			7ML5830-2AH
Comes with integral 250 mm shield 3.1½ [(BSPP), EN ISO 228-1], 3.1½ [(BSPP), EN ISO 228-1], 3.1½ ((BSPP), EN ISO 228-1], 3.1½ ((BSPP), EN ISO 228-1), 3.1½ ((BSPP), EN ISO 20, Invitorio display of YML5741	Comes with integral 250 mm shield 3 1½ ([BSPP), EN ISO 228-1], 3 1½ ([BSPP), EN ISO 28-1], 3 1½ ([BSPP), EN ISO 2	comes with integral 250 mm shield			7MF4997-1DB
Approvals General Purpose, CE, RED, RCM General Purpose, CSA _{us/c} , FM, FCC SA Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe M, Class I, II and III, Div. 1, Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe ECCE Ex ia IIC T4; ATEX II 1G EEx ia IIC T4, RED, GCM, Intrinsically Safe; INMETRO Ex ia IIC T4 Ga; EAC Communication/Output 1 Spare parts A SITRANS RD150, remote digital display for 4 20 mA and HART devices - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 For applicable back up point level switch - see point level measurement section Spare parts	Approvals General Purpose, CE, RED, RCM General Purpose, CSA _{us/c} , FM, FCC SA Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe M, Class I, II and III, Div. 1, Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe ECEX Ex ia IIC T4; ATEX II 1G EEx ia IIC T4, RED, GCM, Intrinsically Safe; INMETRO Ex ia IIC T4 Ga; EAC Communication/Output 1 SITRANS RD150, remote digital display for 4 20 mA and HART devices - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 For applicable back up point level switch - see point level measurement section Spare parts	comes with integral 250 mm shield			7ML1930-1AP
A SITRANS RD150, remote digital display for 4 20 mA and HART devices - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - 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 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 For applicable back up point level switch - see point level measurement section Spare parts	A B SITRANS RD150, remote digital display for 4 20 mA and HART devices - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - 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 For applicable back up point level switch - see point level measurement section Spare parts				7ML5741
CSA Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Group G, Class III, FCC, Intrinsically Safe M, Class I, II and III, Div. 1, Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe ECEX ia IIC T4; ATEX II 1G EEx ia IIC T4, RED, CACK, Intrinsically Safe; INMETRO Ex ia IIC T4 Ga; CACC Communication/Output 1 20 mA, HART CSITRANS 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 For applicable back up point level switch - see point level measurement section Spare parts	CSA Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Group G, Class III, FCC, Intrinsically Safe M, Class I, II and III, Div. 1, Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe ECEX ia IIC T4; ATEX II 1G EEx ia IIC T4, RED, CACK, Intrinsically Safe; INMETRO Ex ia IIC T4 Ga; CACC Communication/Output 1 20 mA, HART CSITRANS 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 For applicable back up point level switch - see point level measurement section Spare parts	General Purpose, CE, RED, RCM			
see Chapter 7 For applicable back up point level switch - see point level measurement section Spare parts see Chapter 7 For applicable back up point level switch - see point level measurement section Spare parts	see Chapter 7 For applicable back up point level switch - see point level measurement section 2 mA, HART 1 Spare parts	CSA Cl <mark>ass I, Div. 1</mark> , Groups A <mark>, B, C,</mark> D, Class II, Div. 1, Group G, Class III, FCC, Intrinsically Safe			7ML5740
For applicable back up point level switch - see point level measurement section Tommunication/Output Toma, HART Tomaphicable back up point level switch - see point level measurement section Spare parts	For applicable back up point level switch - see point level measurement section 1 20 mA, HART For applicable back up point level switch - see point level measurement section Spare parts	Groups A, B, C, D, E, F, G, FCC, Intrinsically Safe ECEx Ex ia IIC T4; ATEX II 1G EEx ia IIC T4, RED,		and linearization curve and Modbus conversion -	7ML5744
4 20 mA, HART Spare parts	4 20 mA, HART Spare parts	EAC	-		
Plastic lid For applicable back up point level switch - see point level measurement section	Plastic lid For applicable back up point level switch - see point level measurement section 7ML1830-1KB	•	1	Spare parts	
For applicable back up point level switch - see point level measurement section	For applicable back up point level switch - see point level measurement section			Plastic lid	7ML1830-1KB
	www.g.antalli			For applicable back up point level switch - see point level measurement section	gilla

Continuous level measurement Radar level transmitters

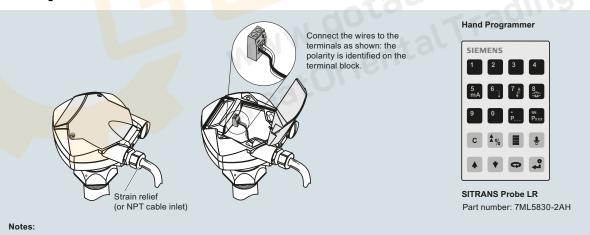
SITRANS Probe LR

Dimensional drawings



SITRANS Probe LR, dimensions in mm (inch)

Circuit diagrams



- DC terminal shall be supplied from an SELV source in accordance with IEC-1010-1 Annex H.
- All field wiring must have insulation suitable for rated input voltages.
- Use shielded twisted pair cable (14-22 AWG).
- Separate cables and conduit may be required to conform to standard instrumentation wiring practices or electrical codes.

SITRANS Probe LR connections









