Ultrasonic transmitters

SITRANS Probe LU240

Overview



SITRANS Probe LU240 ultrasonic level transmitter, ideal for level, volume, and volume flow measurements. It works with liquids, slurries, and bulk materials up to 12 m (40 ft).

Benefits

- Continuous leve I measurement up to 12 m (40 ft) range
- · Easy installation and simple startup
- Programming using 4-button HMI or SIMATIC PDM
- Communication using HART
- ETFE or PVDF transducers for chemical compatibility
- Process Intelligence signal processing
- Auto False Echo Suppression for fixed obstruction avoidance
- · Low power and current startup

Application

The SITRANS Probe LU240 is ideal for level monitoring in the water and wastewater industry, chemical storage vessels, and small bulk hoppers.

The range of SITRANS Probe LU240 is 6 or 12 m (20 or 40 ft). Using Process Intelligence, Auto False Echo Suppression for fixed obstruction avoidance, and accuracy of 0.15 % of range or 6 mm (0.25 inch), the Probe LU240 provides unmatched reliabilitv.

The Probe LU240 offers HART communication.

The transducer on the Probe LU240 is available as ETFE or PVDF to suit the chemical conditions of your application. As well, for applications with varying material and process temperatures, the Probe LU240 incorporates an internal temperature sensor to compensate for temperature changes.

• Key Applications: chemical storage vessels, filter beds, liquid storage vessels

Configuration

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SITRANS Probe LU240 mounting

Continuous level measurement Ultrasonic transmitters

SITRANS Probe LU240

Technical specifications

Imputssels and simple process vesselsInputs $0.2 \dots 6 \text{ m} (8 \text{ inch} \dots 20 \text{ ft})$ $0.6 \text{ m} (20 \text{ ft}) \text{ model}$ $0.2 \dots 6 \text{ m} (8 \text{ inch} \dots 40 \text{ ft})$ $12 \text{ m} (40 \text{ ft}) \text{ model}$ $0.2 \dots 12 \text{ m} (8 \text{ inch} \dots 40 \text{ ft})$ Frequency 54 kHz OutputsmA/HART• Range $4 \dots 20 \text{ mA}$ • Accuracy $\pm 0.02 \text{ mA}$ • Accuracy $\pm 0.02 \text{ mA}$ • Accuracy $\pm 0.02 \text{ mA}$ • Fail-safeProgrammable as high, low, or hold (loss of echo) per NAMUR NE43PerformanceSResolution $\leq 3 \text{ mm} (0.12 \text{ inch})$ Accuracy $\pm \text{ the greater of } 0.15 \% \text{ of range of } 0.22 \text{ m} (0.66 \text{ ft})$ Update time $\leq 4 \text{ s}$ Temperature compensationBuilt-in to compensate over temperature rangeBeam angle10°Reted operating conditionsIndoor/outdoor• LocationStorage: -40 \ldoor +485 °C (-40 \ldoor +185 °F) (-0) - (-40 \ldoor +185 °F))• Operating: -40 \ldoor +485 °C (-40 \ldoor +185 °F)• Pollution degree4Medium conditionsSuitable for outdoor• Installation category1• Pressure (vessel)0.5 bar g (7.25 psi g)DesignMaterial (enclosure)Past of protectionType 4X, Type 6, IP66, IP68, Weight0.93 kg (2.1 lb)Cable inletCable inlet2 x M20 x 1.5 cable gland or	·····		
Typical applicationLevel measurement in storage vesselsInputsMeasuring range• 6 m (20 ft) model0.2 6 m (8 inch 20 ft)• 12 m (40 ft) model0.2 12 m (8 inch 40 ft)Frequency54 kHzOutputsmA/HART• Range4 20 mA• Accuracy± 0.02 mA• HART version7• Startup current3.6 mA• Fail-safePerformanceResolutionAccuracy± the greater of 0.15 % of range of 6 mm (0.25 inch) [valid from 0.25 m (0.82 ft)]Non-Repeatability≤ 3 mm (0.12 inch)Blanking distance0.2 m (0.66 ft)Update time• Location• Location• Location• Relative humidity/ingress protection• Installation category• Relative humidity/ingress protection• Installation category• Pollution degree4Medium conditions• Temperature (vessel)• DesignMedium conditions• Temperature (vessel)• DesignMaterial (enclosure)• PBT (Polybutylene Terephthalate)Degree of protection• Type 4X, Type 6, IP66, IP68,Weight0.93 kg (2.1 lb)Cable inlet0.51 kg (2.1 lb)Cable inlet0.52 kg (2.1 lb)Cable inletCategory• Category• Category• Category• Category• Category	Mode of operation		
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Weight0.93 kg (2.1 lb)Cable inlet2 x M20 x 1.5 cable gland or	Material (enclosure)	PBT (Polybutylene Terephthalate)	
Cable inlet 2 x M20 x 1.5 cable gland or	Degree of protection	Type 4X, Type 6, IP66, IP68,	
	Weight	0.93 kg (2.1 lb)	
1 x 1/2" NPT thread	Cable inlet	2 x M20 x 1.5 cable gland or 1 x $\frac{1}{2}$ " NPT thread	
Material (transducer) ETFE (Ethylene Tetrafluoroethylene) or PVDF (Polyvinylidene Fluoride), Buna-N seal	Material (transducer)	(Polyvinylidene Fluoride),	

Process connection			
Threaded connection	2" NPT [(Taper), ASME B1.20.1]		
	R 2" [(BSPT), EN 10226]		
	or		
	G 2" [(BSPP), EN ISO 228-1]		
Flange connection	3 inch (80 mm) universal flange		
Other connection	FMS 200 mounting bracket (see page 4/186) or customer supplied mount		
Display and Controls			
Interface	Local: LCD display		
	Remote: Available via HART		
Configuration	4-button HMI		
Memory	Non-volatile EEPROM, no battery required		
Power supply			
4 20 mA/HART	10.5 30 V DC		
Certificates and Approvals			
General	FM, _C CSA _{US,} CE, RCM		
Hazardous • Intrinsically Safe			
- Europe - International - USA/Canada	ATEX II 1G Ex ia IIC T4 Ga IECEx SIR 18.0013X Ex ia IIC T4 Ga $FM/_CCSA_{US}$, Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1,		
- Brazil - China - South Africa • Non-incendive	Groups E, F, G, Class III T4 INMETRO Ex ia IIC T4 Ga NEPSI Ex ia IIC T4 Ga SABS Ex ia IIC Tx Ga		
- USA	FM, Class I, Div. 2, Groups A, B, C, D Tx		

Continuous level measurement Ultrasonic transmitters

Selection and Ordering data	Article No.		Selection and Ordering data	Article No.
SITRANS Probe LU240 Ultrasonic Level,	7ML51		Compact operating instructions	
HART SITRANS Probe LU240 ultrasonic level trans-	1 4		English, German, French, Spanish, Italian, Chinese	A5E42673704
mitter, ideal for level, volume, and volume flow measurements. It works with liquids, slurries, and bulk materials up to 12 m (40 ft).			Estonian, Latvian, Lithuanian, Polish, Romanian, Croatian	A5E42673708
↗ Click on the Article No. for the online confi- guration in the PIA Life Cycle Portal.			Bulgarian, Czech, Finnish, Slovakian, Slovenian, Dutch	A5E42673746
Communications HART (4 20 mA) level, volume, volume flow	0		Danish, Greek, Portuguese, Swedish, Hungarian	A5E42673748
Ingress protection			Note: The Operating Instructions should be ordered as a separate item on the order.	
IP68, TYPE6 Measurement range/wetted parts 200 6 000 mm (7.87 236.22 inch), PVDF Copolymer	1		All literature is available to download for free, in a range of languages, at http://www.siemens.com/ processinstrumentation/documentation	
200 6 000 mm (7.87 236.22 inch), ETFE	E		Accessories	
200 12 000 mm (7.87 472.44 inch), PVDF Copolymer	G		Tag, stainless steel, 12 x 45 mm, one text line (max. 16 characters)	7ML1930-1AC
200 12 000 mm (7.87 472.44 inch), ETFE	н		Stainless steel FMS200 universal box bracket mounting kit	7ML1830-1BK
Process connection 2" NPT [(Taper), ASME B1.20.1]	D		3" ASME/DIN Universal mounting adapter, 2" NPT, ETFE	7ML1830-1BT
R 2" [(BSPT), EN 10226] G 2" [(BSPP), EN ISO 228-1]	E F		3" ASME/DIN Universal mounting adapter, 2" BSP, ETFE	7ML1830-1BU
Non-wetted parts	_		2" NPT nylon plastic, locknut	7ML1830-1DT
Plastic (PBT/PC material)	7		2" BSP nylon plastic, locknut	7ML1830-1DQ
Type of protection Non-Ex (ordinary locations) _C CSA _{US} , CE, RCM, EAC	A	A	Cable Gland Polyamide - General Purpose (-20 +60 °C)	A5E34457564
Non-Ex (ordinary locations) _C CSA _{US} ,	E	в	Spare Parts	
FM, CE, RCM ¹⁾ Ex i (ia) (Ex-Zone 0/Div. 1)/IS, FM NI (Class I,	c	с	Spare lid, clear	A5E44267491
$Div. 2)^{2)}$			Spare lid, blind	A5E44267497
Electrical connections/cable entries			Spare o-ring for lid	A5E44267501
2 x M20 x 1.5 (one general purpose Polyamide cable gland and one Polyamide blocking plug provided)		F	Spare segmented display and 4-button HMI	A5E44809382
1 x 1/2" NPT (no gland cable provided) For custom electrical connections/cable entries, contact a local sales person. For more information please visit: http://www.automation.siemens.com/aspa_app Local HMI Without display (blind lid of PBT/PC material) With display (blind lid of PBT/PC material) With display (clear lid of PC material)	-	K 0 1 3	 For use with Electrical connections/cable entries For use with only one order code (E31, E32, E33 Order codes (E31, E32, E33, E34) only available option C. 	3, Ė34).

Selection and Ordering data Order code Further designs Order code

Please add "-Z" to Article No. and specify Order code(s).	
Stainless steel tag [13 x 45 mm (0.5 x 1.75 inch)]: Measuring-point number/identification (max. 32 characters) specify in plain text	Y15
Certificates	
Test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000	C11
Certificate EN 10204-2.2	C14
Approvals ³⁾	
ATEX, SABS, IECEx - 1G, EAC Ex, Ex ia IIC T4 Ga	E31
FM non-incendive - Class I, Div. 2, Groups A, B, C, D T5 (Ta = 80 °C), T6 (Ta = 40 °C) ¹⁾	E32
NEPSI, IECEx - Ex ia IIC T4 Ga	E33
cCSA _{us} , KCs, FM - Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G, T4, INMETRO, IECEx - Ex ia IIC T4 Ga ¹⁾ For customs, contact a local sales person. For more information please visit http://www.automation.siemens.com/aspa_app.	E34

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Continuous level measurement Ultrasonic transmitters

SITRANS Probe LU240

Options





SITRANS Probe LU240 with optional FMS 200 universal box bracket



SITRANS Probe LU240 optional flange adapter, dimensions in mm (inch)

Continuous level measurement Ultrasonic transmitters

SITRANS Probe LU240

Dimensional drawings



SITRANS Probe LU240, dimensions in mm (inch)

Continuous level measurement Ultrasonic transmitters

SITRANS Probe LU240



SITRANS Probe LU240 connections





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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.

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