

True level control for multiple points and tall vessels



SITRANS LU

- Continuous level ultrasonic controller for long-range applications up to 60 m (200 ft)
- 3 models – LU 01 for one point, LU 02 for two point and LU 10 for up to ten points
- AC or DC version for LU 01 and LU 02, AC version for LU 10
- Compatible with all Echomax® transducers
- Simple set up and programming with handheld infrared programmer or via PC software
- Digital communications including: PROFIBUS DP, Modbus® RTU, Allen-Bradley® Remote I/O, DeviceNet™ and Modbus RTU - Modem
- Optional SITRANS LU AO and SITRANS LU SAM provide mA or relay outputs for SITRANS LU 10
- Field proven Sonic Intelligence® echo processing for superior reliability

control

million
in one

SITRANS LU is a long-range non-contacting ultrasonic controller giving you true level control of your vessels. It provides continuous level measurement of materials including liquids and solids in tanks up to 60 m (200 ft). Featuring field proven Sonic Intelligence software, SITRANS LU provides exceptional echo processing and reliable level measurement. Its simple installation and programming gives you control of your vessel in minutes.

Three models give you the option to measure one, two or ten points. With optional communications cards SITRANS LU can connect to common industrial communication buses. Backed by the experience of over a million field applications and advanced software, SITRANS LU provides superior reliability and performance.

SITRANS LU – a million in one.

www.siemens.com/level

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Technical Specifications

	SITRANS LU 01 and LU 02	SITRANS LU 10
Power		
	<ul style="list-style-type: none"> ■ AC version: 100/115/200/230 VAC ± 15%, 50/60 Hz, 31 VA ■ DC version: 18 to 30 VDC, 25 W 	AC version: 100/115/200/230 VAC ± 15%, 50/60 Hz, 31 VA
Performance		
Points of measurement	LU 01: 1 point LU 02: 2 points	up to 10 points
Measurement range	0.3 to 60 m (1 to 200 ft) dependent on transducer	
Accuracy	0.25% of program range* or 6 mm (0.24") whichever is greater	
Resolution	0.1% or program range* or 2 mm (0.08") whichever is greater	
Interface		
Display	51 x 127 mm (2 x 5") multi-field back lit LCD	
Communication	SmartLinX® Communication Cards: protocol specific modules as interface for popular industrial fieldbus systems for PROFIBUS DP, Modbus RTU, Allen-Bradley Remote I/O, DeviceNet, Modbus RTU - Modem	
Programming	<ul style="list-style-type: none"> ■ Patented infrared handheld programmer ■ Dolphin Plus® configuration software compatible with Windows® 	
Outputs	<ul style="list-style-type: none"> ■ LU 01: One 0 – 20 or 4 – 20 mA output ■ LU 02: Two 0 – 20 or 4 – 20 mA output ■ 4 alarm/control relays, 1 change-over contact per relay, rated at 5A at 250 VAC 	<ul style="list-style-type: none"> ■ Ten 0 – 20 or 4 – 20 mA outputs with optional SITRANS LU A0 module ■ 20 alarm/control relays with 1 changeover contact per relay, rated at 5A at 250 VAC with optional SITRANS LU SAM module
Inputs	<ul style="list-style-type: none"> ■ LU 01: 1 discrete input for contact level device ■ LU 02: 2 discrete inputs for contact level devices 	■ 10 discrete inputs for contact level devices
Mechanical		
Enclosure	Polycarbonate Type 4X/NEMA 4X/IP65	
Process conditions		
Ambient temperature	-20 to 50 °C (-5 to 122 °F)	
Compatible transducers		
	ST-H, Echomax series	
Approvals		
	CE, CSA _{NRTL/C} , FM, Lloyd's Register of Shipping	

*Program range is defined as the empty distance to the face of the transducer plus any range extension. Dolphin Plus, Sonic Intelligence, Echomax and SmartLinX are registered trademarks of Siemens Milltronics Process Instruments Inc. Allen-Bradley is a registered trademark of Rockwell Automation. DeviceNet is a trademark of Open DeviceNet Vendor Association (ODVA). Modbus is a registered trademark of Shneider Electric. SITRANS is a registered trademark of Siemens AG. Windows is a registered trademark of Microsoft Corporation.

Specifications are subject to change without notice.
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Million in one

Signal processing with field experience

Siemens level measurement instruments come with extensive field experience. Siemens Milltronics developed the signal processing technology for level instruments based on the experience of a million instruments in industrial applications.

With this experience we understand the importance of reliability, and we know what it takes to make a trusted and accurate level instrument for demanding applications. That's why our engineers invented Sonic Intelligence and why these instruments carry so many patents. With Siemens Milltronics you get the experience of a million applications in one instrument.

