True level control for multiple points and tall vessels

With the reliability of Sonic Intelligence echo processing

SITRANS LU

Answers for industry.

SIEMENS

Level measurement for multiple points and tall vessels

SITRANS LU long-range non-contacting ultrasonic controllers give true level control of your vessels. They provide continuous level measurement of materials including liquids and solids in tanks up to 60 m (200 ft). Featuring Sonic Intelligence®, the SITRANS LU series provides exceptional echo processing and reliable level measurement for one to ten points.

- 3 models – LU01 for one point, LU02 for two points and LU10 for up to ten points

- Simple setup and programming with handheld infrared programmer or via PC software

- Optional: SITRANS LU AO offers 10 analog outputs and SITRANS LU SAM offers 20 relays for SITRANS LU10

- Sonic Intelligence – our field-proven echo processing algorithms guarantee the most reliable performance available

- Unmatched beam angle – stronger pulse and sensitivity in a compact beam make our ultrasonics transducers the most accurate and reliable in the industry

- Million in one – our products have the field experience of over a million points of level built into every device

- Global network – sales and support in your neighborhood. Our extensive global coverage means you get sales and support when and where you need it.

	SITRANS LU01 and LU02	SITRANS LU10
Power		
	• AC version: 100/115/200/230 V AC ± 15%, 50/60 Hz, 31 VA • DC version: 18 to 30 V DC, 25 W	• AC version: 100/115/200/230 V AC ± 15%, 50/60 Hz, 31 VA
Performance		
Measuring points	LU01: 1 point LU02: 2 points	up to 10 points
Measurement range	0.3 to 60 m (1 to 200 ft), transducer dependent	
Accuracy	0.25% of program range* or 6 mm (0.24"), whichever is greater	
Resolution	0.1% of program range* or 2 mm (0.08"), whichever is greater	
Interface		
Display	51 x 127 mm (2 x 5") multi-field backlit 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	• Patented infrared handheld programmer • Dolphin Plus® configuration software compatible with Windows®	
Outputs	• LU01: One 0/4 to 20 mA output • LU02: Two 0/4 to 20 mA output • 4 alarm/control relays, 1 change-over contact per relay, rated at 5A at 250 V AC	• Ten 0 to 20 or 4 to 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
Mechanical		
Enclosure	Polycarbonate NEMA 4X/IP65	
Process conditions		
Ambient temp.	-20 to 50 ℃ (-4 to 122 °F)	
Compatible transducers		
	ST-H, Echomax® series	
Approvals		
	CE, CSA$_{NRTL/C}$, FM, ATEX; LU02 and LU10: Lloyd's Register of Shipping	

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

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