














Level instruments

Product overview

Product overview

Overview








	Application	Device description	Page	Programming Software
Point level measurement - Capacitance switches				
	Powerful range of level switches suitable for a variety of industries	Pointek CLS100/CLS200/CLS300/CLS500 <ul style="list-style-type: none"> CLS100: compact 2-wire inverse frequency shift capacitance switch for level detection in constricted spaces, interfaces, solids, liquids, slurries, and foam CLS200: a versatile inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output, ideal for detection of liquids, solids, slurries, foam, and interfaces; digital version (with PROFIBUS PA) includes a display and provides additional diagnostic features CLS300: inverse frequency shift capacitance level switch with optional rod/cable choices and configurable output. It is ideal for detecting liquids, solids, slurries, foam and interfaces in demanding conditions where high pressure and temperatures are present; digital version (with PROFIBUS PA) includes a display and provides additional diagnostic features CLS500: inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of high temperature and pressure; HART® communication for remote commissioning 	5/9	–
		5/15	SIMATIC PDM	
		5/31	SIMATIC PDM	
		5/47	SIMATIC PDM	
Point level measurement - Electro-mechanical switches				
	Reliable rotating and vibrating point level switches for bulk solids at a competitive price	SITRANS LPS200/LVS200 <ul style="list-style-type: none"> LPS200: rotating switch that detects high, low and demand conditions for bulk solids LVS200: vibrating point level switch with unique robust tine design, for use on bulk solids 	5/64	–
		5/73	–	
Point level measurement - Ultrasonic switch				
	Ultrasonic non-contacting switch with two switch points for level detection of bulk solids, liquids and slurries in a wide variety of industries	Pointek ULS200 <ul style="list-style-type: none"> Rugged design, no moving parts and virtually maintenance-free Transducer available in ETFE or PVDF copolymer and therefore inert to most chemicals 	5/85	–
Continuous measurement - Ultrasonic transmitters				
	Compact level transmitter with integrated transducer for accurate level measurement for liquid applications	The Probe <ul style="list-style-type: none"> Simple, compact and competitively priced ultrasonic level transmitter in several versions for maximum versatility: <ul style="list-style-type: none"> Three-wire system with 5 m model 24 V DC Two-wire system with current loop 	5/88	–
	2-wire loop powered ultrasonic transmitter for level, volume, and flow monitoring of liquids in open channels, storage vessels, and simple process vessels	SITRANS Probe LU <ul style="list-style-type: none"> Continuous level measurement up to 12 m (40 ft) range Patented Sonic Intelligence signal processing Extremely high signal-to-noise ratio Auto False-Echo Suppression of false echoes 	5/91	SIMATIC PDM








	Application	Device description	Page	Programming Software
Continuous measurement - Ultrasonic controllers				
	Ultrasonic level controller for up to six pumps - control, differential control and open channel flow monitoring	HydroRanger 200 <ul style="list-style-type: none"> An economical, low-maintenance solution delivering control efficiency and productivity needed to meet today's exacting standards Auto False-Echo Suppression of false echoes 	5/95	SIMATIC PDM
	Versatile short- to medium-range ultrasonic single- and dual-vessel level controller for virtually any application in a wide range of industries	MultiRanger 100/200 <ul style="list-style-type: none"> Using non-contacting ultrasonic technology, the controller measures the level in short to medium range applications up to 15 m (50 ft) of solids, liquids or slurries Auto False-Echo Suppression of false echoes 	5/100	SIMATIC PDM
	Non-contacting, cost-effective solution for reliable control of level and flow measurements in water and wastewater applications	HydroRanger Plus <ul style="list-style-type: none"> Available as 19" rack, for panel mounting or in wall enclosure Compatible with Echomax® ultrasonic transducers 	5/104	Dolphin Plus
	Complete ultrasonic level controller for monitoring and control of water distribution and wastewater collection systems, with energy-saving algorithms	SITRANS LUC500 <ul style="list-style-type: none"> Monitoring and control in one device Integral telemetry interface (Modbus® RTU/ASCII) Expandable platform to handle any liquid application from tank level measurement to pump control 	5/108	Dolphin Plus
	Ultrasonic long-range level monitoring system for liquids and solids	SITRANS LU01/LU02/LU10 <ul style="list-style-type: none"> Automatic conversion of level into volume for standard or custom tank shapes Easy to install and program Optional fieldbus card, e.g. PROFIBUS DP 	5/112, 5/117	Dolphin Plus
	Output modules for SITRANS LU10	SITRANS LU SAM/SITRANS LU AO <ul style="list-style-type: none"> SITRANS LU SAM satellite alarm module provides up to 20 relay contacts for the measurement points connected to a SITRANS LU10 SITRANS LU AO analog output module provides remote analog outputs for the measurement points of the SITRANS LU10 transceiver 	5/120 5/122	- -
Continuous measurement - Ultrasonic transducers				
	ST-H: ETFE or PVDF transducer for chemicals XRS-5: Standard transducer for applications to 8 m (26 ft)	ST-H/Echomax XRS-5 <ul style="list-style-type: none"> The narrow design of the ST-H allows the sensor to be mounted using a 2" connection XRS-5: narrow beam angle of only 10°, measuring range maximum 8 m (26 ft) for measurement of liquids, solids and slurries 	5/125 5/128	- -
	Transducers for liquids and bulk solids XPS and XCT series: Hermetically sealed PVDF enclosure for chemical immunity XLT: Designed for high temperature and long range applications	Echomax XPS and XCT/XLT <ul style="list-style-type: none"> XPS series offers versions for various distances up to 40 m (130 ft) and up to a max. temperature of +95 °C (+203 °F) XCT series for applications at high temperatures, for measurement of levels at distances up to 12 m (40 ft) and temperatures of max. +145 °C (+293 °F) XLT: measuring ranges from 0.9 to 60 m (1.8 to 200 ft) and temperatures up to +150 °C (+302 °F). Beam angle of just 5° provides accurate readings in solids storage bunkers 	5/131 5/141	- -

Level instruments

Product overview

Product overview

	Application	Device description	Page	Programming Software
Continuous measurement - Radar transmitters				
	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)	SITRANS Probe LR <ul style="list-style-type: none"> • Uni-Construction polypropylene rod antenna standard • Patented Sonic Intelligence signal processing • Auto False-Echo Suppression of false echoes 	5/153	SIMATIC PDM
	2-wire, 6 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)	SITRANS LR200 <ul style="list-style-type: none"> • Program without opening the lid, even in hazardous areas, using patented infrared IS handheld programmer • Special Uni-Construction hermetically sealed polypropylene rod antenna has integrated threaded connection • Built-in alphanumeric display with support in four languages 	5/157	SIMATIC PDM
	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); ideal for small vessels and low dielectric media	SITRANS LR250 <ul style="list-style-type: none"> • Simple operation using the graphical local user interface (LUI) • Plug-and-play setup using the intuitive Quick Start Wizard • 25 GHz high frequency allows for small horn antennas and easy mounting in nozzels • Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions • Communication using HART® or PROFIBUS PA 	5/168	SIMATIC PDM
	2-wire, 25 GHz pulse radar level transmitter for continuous monitoring of solids up to 30 m (66 ft); ideal for measurement in extreme dust	SITRANS LR260 <ul style="list-style-type: none"> • Simple operation using the graphical local user interface (LUI) • Plug-and-play setup using the intuitive Quick Start Wizard • 25 GHz high frequency allows for small horn antennas and easy mounting in nozzels • Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions • Communication using HART® or PROFIBUS PA 	5/175	SIMATIC PDM
	4-wire, 6 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)	SITRANS LR300 <ul style="list-style-type: none"> • Cost-effective level measurements with powerful radar measuring system for process and tank control in extremely difficult processes and atmospheres • Reliable level measurements in liquids and slurries up to 20 m (65 ft) 	5/180	SIMATIC PDM
	4-wire, 24 GHz FMCW radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and high pressure, to a range of 50 m (164 ft); ideal for low dielectric media	SITRANS LR400 <ul style="list-style-type: none"> • Minimum maintenance requirements and wear as result of non-contacting measuring principle • High long-term stability resulting from self-calibration with highly stable internal reference • High measuring accuracy and repeatability as result of 24 GHz; narrow beam angle for tall, narrow vessels 	5/194	SIMATIC PDM
	4-wire, 24 GHz FMCW radar level transmitter with extremely high signal-to-noise ratio and advanced signal processing for continuous monitoring of solids up to 100 m (328 ft); ideal for measurement in extreme dust	SITRANS LR460 <ul style="list-style-type: none"> • Process Intelligence for advanced signal processing and quick and easy adjustment • Self-guided Quick Start Wizard for plug and play start-up • 100 m (328 ft) range for long-range and difficult applications 	5/201	SIMATIC PDM

Application	Device description	Page	Programming Software
Continuous measurement - Guided wave radar transmitters			
	<p>Guided wave radar transmitter for short- and medium-range level, level/interface and volume measurement of liquids and solids. It is unaffected by changes in process conditions, high temperatures and pressures, and steam.</p>	SITRANS LG200	5/207 SIMATIC PDM
	<ul style="list-style-type: none"> Measures accurately on materials with dielectric (dK) as low as 1.4 Guided wave radar measurement for up to 2.5 mm (0.12") accuracy Measures level and interface on challenging applications including foam 3 button programming for quick setup Reliable level measurement on harsh applications with pressure up to 430 bar g (6250 psi g) and temperatures as high as +427 °C (+800 °F) 		
Continuous level – Capacitance transmitters			
	<p>For liquids and solids applications, ideal for standard industrial applications in chemical, hydrocarbon processing, food and beverage and mining, aggregate and cement industries</p>	SITRANS LC300	5/224 –
	<ul style="list-style-type: none"> Sophisticated, but easy-to-adjust microprocessor combined with field-proven probes Patented active shield technology ensures measurements are unaffected by vapors, product deposits, dust and condensation 		
	<p>Level and interface transmitter for extreme and critical process conditions, such as oil and liquid natural gas (LNG), toxic and aggressive chemicals and vapours</p>	SITRANS LC500	5/233 SIMATIC PDM
	<ul style="list-style-type: none"> Equipped with the HART® Smart protocol for remote setup and calibration Patented active shield technology ensures measurements are unaffected by vapors, product deposits, dust and condensation 		
Continuous level - Open channel flow - Ultrasonic controller			
	<p>High accuracy ultrasonic flow monitor for open channels</p>	OCM III	5/257 –
	<ul style="list-style-type: none"> Compatible with most standard open channel weirs and flumes AC and DC operation Automatically switches to battery operation for uninterrupted power MCERTS approved device 		
Communications and Displays			
		SmartLinx Module, Dolphin Plus software	5/260 –
		<ul style="list-style-type: none"> Optional communication modules, SmartLinx, provide direct digital connection to popular industrial fieldbus systems Dolphin Plus for quick and easy configuring, monitoring, tuning and diagnostics of Siemens devices 	5/262 –
	<p>2-wire loop powered, NEMA 4X enclosed remote digital display for process instrumentation</p>	SITRANS RD100	5/263 –
		<ul style="list-style-type: none"> Versatile loop-powered meter that displays process variables in level, flow, pressure, temperature and weighing applications FM and CSA approved device that can be installed in range of environments, including hazardous areas Large, easy-to-read display Easy to install and set up using quick two-step process 	
	<p>Universal input, panel mount remote digital display for process instrumentation</p>	SITRANS RD200	5/265 –
		<ul style="list-style-type: none"> Universal remote display that accepts various inputs, making it an ideal fit for use with most field instruments Standard panel mount display with optional enclosures Two optional relays for alarm indication or process control applications Meter Copy feature to reduce setup time, cost and errors RD Software supporting remote configuration, monitoring and logging for up to 100 displays 	