

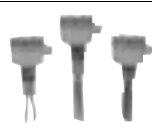
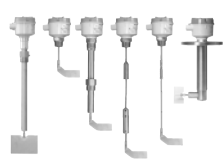











# Level instruments

## Product overview







### Overview







	Application	Device description	Page	Programming Software
<b>Point level measurement - Capacitance switches</b>				
	Powerful range of level switches suitable for a variety of industries	<b>Pointek CLS100/CLS200/CLS300/CLS500</b> <ul style="list-style-type: none"> <li>• CLS100: compact 2-wire inverse frequency shift capacitance switch for level detection in constricted spaces, interfaces, solids, liquids, slurries, and foam</li> </ul>	5/10	-
		<ul style="list-style-type: none"> <li>• 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</li> </ul>	5/15	SIMATIC PDM
		<ul style="list-style-type: none"> <li>• 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</li> </ul>	5/41	SIMATIC PDM
		<ul style="list-style-type: none"> <li>• 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</li> <li>• 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</li> </ul>	5/61	SIMATIC PDM
<b>Point level measurement - Vibrating switches</b>				
	Reliable vibrating point level switches for liquid and slurry applications across all industries	<b>SITRANS LVL100/LVL200</b> <ul style="list-style-type: none"> <li>• LVL100: compact vibrating level switch for use in liquid and slurry applications such as overflow, high, low and demand level applications. Also ideal for dry run protection</li> </ul>	5/78	-
		<ul style="list-style-type: none"> <li>• LVL200: advanced vibrating level switch for use in liquid and slurry applications. Suited for most hazardous area applications such as: overflow, high, low, demand, and dry run protection; can also be used for SIL-2 Safety Functions in terms of IEC 61511-1 First Edition 2003-01.</li> </ul>	5/84	-
	Reliable vibrating point level switches for bulk solids in a wide variety of applications at a competitive price	<b>SITRANS LVS100/LVS200</b> <ul style="list-style-type: none"> <li>• Vibrating point level switch designed to be impervious to external vibrations and to provide reliable performance in demanding bulk solids applications.</li> </ul>	5/99	-
<b>Point level measurement - Rotating paddle switch</b>				
	Reliable rotating point level switches for bulk solids in a wide variety of applications at a competitive price	<b>SITRANS LPS200</b> <ul style="list-style-type: none"> <li>• LPS200: rotating paddle switch for detection of high, low, and demand levels for a wide variety of bulk solids industries. Unique engineering provides long-lasting reliable performance.</li> </ul>	5/110	-
<b>Point level measurement - Ultrasonic switch</b>				
	Ultrasonic non-contacting switch with two switch points for level detection of bulk solids, liquids and slurries in a wide variety of industries	<b>Pointek ULS200</b> <ul style="list-style-type: none"> <li>• Rugged design, no moving parts and virtually maintenance-free</li> <li>• Transducer available in ETFE or PVDF copolymer and therefore inert to most chemicals</li> </ul>	5/122	-

	Application	Device description	Page	Programming Software
<b>Continuous level measurement - Ultrasonic transmitters</b>				
	Compact level transmitter with integrated transducer for accurate level measurement for liquid applications	<b>The Probe</b> <ul style="list-style-type: none"> <li>Simple, compact and competitively priced ultrasonic level transmitter in several versions for maximum versatility: <ul style="list-style-type: none"> <li>- Three-wire system with 5 m model 24 V DC</li> <li>- Two-wire system with current loop</li> </ul> </li> </ul>	5/126	-
	2-wire loop powered ultrasonic transmitter for level, volume and flow monitoring of liquids in open channels, storage vessels and simple process vessels	<b>SITRANS Probe LU</b> <ul style="list-style-type: none"> <li>Continuous level measurement up to 12 m (40 ft) range</li> <li>Patented Sonic Intelligence signal processing</li> <li>Extremely high signal-to-noise ratio</li> <li>Auto False-Echo Suppression of false echoes</li> </ul>	5/129	SIMATIC PDM
<b>Continuous level measurement - Ultrasonic controllers</b>				
	Ultrasonic level controller for up to six pumps - control, differential control and open channel flow monitoring	<b>HydroRanger 200</b> <ul style="list-style-type: none"> <li>An economical, low-maintenance solution delivering control efficiency and productivity needed to meet today's exacting standards</li> <li>Auto False-Echo Suppression of false echoes</li> </ul>	5/133	SIMATIC PDM
	Versatile short- to medium-range ultrasonic single- and dual-vessel level controller for virtually any application in a wide range of industries	<b>MultiRanger 100/200</b> <ul style="list-style-type: none"> <li>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</li> <li>Auto False-Echo Suppression of false echoes</li> </ul>	5/138	SIMATIC PDM
	Non-contacting, cost-effective solution for reliable control of level and flow measurements in water and wastewater applications	<b>HydroRanger Plus</b> <ul style="list-style-type: none"> <li>Available as 19" rack, for panel mounting or in wall enclosure</li> <li>Compatible with Echomax® ultrasonic transducers</li> </ul>	5/142	Dolphin Plus
	Complete ultrasonic level controller for monitoring and control of water distribution and wastewater collection systems, with energy-saving algorithms	<b>SITRANS LUC500</b> <ul style="list-style-type: none"> <li>Monitoring and control in one device</li> <li>Integral telemetry interface (Modbus® RTU/ASCII)</li> <li>Expandable platform to handle any liquid application from tank level measurement to pump control</li> </ul>	5/146	Dolphin Plus
	Ultrasonic long-range level monitoring system for liquids and solids	<b>SITRANS LU01/LU02/LU10</b> <ul style="list-style-type: none"> <li>Automatic conversion of level into volume for standard or custom tank shapes</li> <li>Easy to install and program</li> <li>Optional fieldbus card, e.g. PROFIBUS DP</li> </ul>	5/151, 5/156	Dolphin Plus
	Output modules for SITRANS LU10	<b>SITRANS LU SAM/SITRANS LU AO</b> <ul style="list-style-type: none"> <li>SITRANS LU SAM satellite alarm module provides up to 20 relay contacts for the measurement points connected to a SITRANS LU10</li> <li>SITRANS LU AO analog output module provides remote analog outputs for the measurement points of the SITRANS LU10 transceiver</li> </ul>	5/159  5/161	-  -

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	Application	Device description	Page	Programming Software
<b>Continuous level measurement - Ultrasonic transducers</b>				
	ST-H: ETFE or PVDF transducer for chemicals XRS-5: Standard transducer for applications to 8 m (26 ft)	<b>ST-H/Echomax XRS-5</b> <ul style="list-style-type: none"> <li>The narrow design of the ST-H allows the sensor to be mounted using a 2" connection</li> <li>XRS-5: narrow beam angle of only 10°, measuring range maximum 8 m (26 ft) for measurement of liquids, solids and slurries</li> </ul>	5/164 5/167	- -
	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	<b>Echomax XPS and XCT/XLT</b> <ul style="list-style-type: none"> <li>XPS series offers versions for various distances up to 40 m (130 ft) and up to a max. temperature of +95 °C (+203 °F)</li> <li>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)</li> <li>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</li> </ul>	5/170 5/180	- - -
<b>Continuous level measurement - Radar transmitters</b>				
	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)	<b>SITRANS Probe LR</b> <ul style="list-style-type: none"> <li>Uni-Construction polypropylene rod antenna standard</li> <li>Patented Sonic Intelligence signal processing</li> <li>Auto False-Echo Suppression of false echoes</li> </ul>	5/191	<ul style="list-style-type: none"> <li>SIMATIC PDM</li> <li>AMS</li> </ul>
	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)	<b>SITRANS LR200</b> <ul style="list-style-type: none"> <li>Program without opening the lid, even in hazardous areas, using patented infrared IS handheld programmer</li> <li>Special Uni-Construction hermetically sealed polypropylene rod antenna has integrated threaded connection</li> <li>Built-in alphanumeric display with support in four languages</li> </ul>	5/195	<ul style="list-style-type: none"> <li>SIMATIC PDM</li> <li>AMS</li> </ul>
	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	<b>SITRANS LR250</b> <ul style="list-style-type: none"> <li>Simple operation using the graphical local user interface (LUI)</li> <li>Plug-and-play setup using the intuitive Quick Start Wizard</li> <li>25 GHz high frequency allows for small horn antennas and easy mounting in nozzels</li> <li>Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions</li> <li>Communication using HART® or PROFIBUS PA</li> </ul>	5/210	<ul style="list-style-type: none"> <li>SIMATIC PDM</li> <li>AMS</li> </ul>
	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	<b>SITRANS LR260</b> <ul style="list-style-type: none"> <li>Simple operation using the graphical local user interface (LUI)</li> <li>Plug-and-play setup using the intuitive Quick Start Wizard</li> <li>25 GHz high frequency allows for small horn antennas and easy mounting in nozzels</li> <li>Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions</li> <li>Communication using HART® or PROFIBUS PA</li> </ul>	5/218	SIMATIC PDM

	Application	Device description	Page	Programming Software
	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	<b>SITRANS LR400</b> <ul style="list-style-type: none"> <li>• Minimum maintenance requirements and wear as result of non-contacting measuring principle</li> <li>• High long-term stability resulting from self-calibration with highly stable internal reference</li> <li>• High measuring accuracy and repeatability as result of 24 GHz; narrow beam angle for tall, narrow vessels</li> </ul>	5/223	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	<b>SITRANS LR460</b> <ul style="list-style-type: none"> <li>• Process Intelligence for advanced signal processing and quick and easy adjustment</li> <li>• Self-guided Quick Start Wizard for plug and play start-up</li> <li>• 100 m (328 ft) range for long-range and difficult applications</li> </ul>	5/230	SIMATIC PDM
<b>Continuous level measurement - Guided wave radar transmitters</b>				
	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.	<b>SITRANS LG200</b> <ul style="list-style-type: none"> <li>• Measures accurately on materials with dielectric (dK) as low as 1.4</li> <li>• Guided wave radar measurement for up to 2.5 mm (0.12") accuracy</li> <li>• Measures level and interface on challenging applications including foam</li> <li>• 3 button programming for quick setup</li> <li>• 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)</li> </ul>	5/239	SIMATIC PDM
<b>Continuous level measurement – Capacitance transmitters</b>				
	For liquids and solids applications, ideal for standard industrial applications in chemical, hydrocarbon processing, food and beverage and mining, aggregate and cement industries	<b>SITRANS LC300</b> <ul style="list-style-type: none"> <li>• Sophisticated, but easy-to-adjust microprocessor combined with field-proven probes</li> <li>• Patented active shield technology ensures measurements are unaffected by vapors, product deposits, dust and condensation</li> </ul>	5/262	-
	Level and interface transmitter for extreme and critical process conditions, such as oil and liquid natural gas (LNG), toxic and aggressive chemicals and vapours	<b>SITRANS LC500</b> <ul style="list-style-type: none"> <li>• Equipped with the HART® Smart protocol for remote setup and calibration</li> <li>• Patented active shield technology ensures measurements are unaffected by vapors, product deposits, dust and condensation</li> </ul>	5/273	SIMATIC PDM
<b>Continuous level measurement - Open channel flow - Ultrasonic controller</b>				
	High accuracy ultrasonic flow monitor for open channels	<b>OCM III</b> <ul style="list-style-type: none"> <li>• Compatible with most standard open channel weirs and flumes</li> <li>• AC and DC operation</li> <li>• Automatically switches to battery operation for uninterrupted power</li> <li>• MCERTS approved device</li> </ul>	5/298	-

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	Application	Device description	Page	Programming Software
<b>Communications and Displays</b>				
		<b>SmartLinX Module, Dolphin Plus software</b> <ul style="list-style-type: none"> <li>• Optional communication modules, SmartLinX, provide direct digital connection to popular industrial fieldbus systems</li> <li>• Dolphin Plus for quick and easy configuring, monitoring, tuning and diagnostics of Siemens devices</li> </ul>	5/301 5/303	- -
	2-wire loop powered, NEMA 4X enclosed remote digital display for process instrumentation and for hazardous locations	<b>SITRANS RD100</b> <ul style="list-style-type: none"> <li>• Versatile loop-powered meter that displays process variables in level, flow, pressure, temperature and weighing applications</li> <li>• FM and CSA approved device that can be installed in range of environments, including hazardous areas</li> <li>• Large, easy-to-read display</li> <li>• Easy to install and set up using quick two-step process</li> </ul>	5/304	-
	Universal input, panel mount remote digital display for process instrumentation. Supports RTD, TC, current and voltage inputs, and supporting software allows for remote configuration and data logging.	<b>SITRANS RD200</b> <ul style="list-style-type: none"> <li>• Universal remote display that accepts various inputs, making it an ideal fit for use with most field instruments</li> <li>• Standard panel mount display with optional enclosures</li> <li>• Two optional relays for alarm indication or process control applications</li> <li>• Meter Copy feature to reduce setup time, cost and errors</li> <li>• RD Software supporting remote configuration, monitoring and logging for up to 100 displays</li> </ul>	5/306	-