



Level detection When precision matters most



Pointek CLS 200

Inverse Frequency capacitance technology results in higher accuracy and resolution.

Advanced Sensitive-Tip technology for accurate and repeatable switch point.

Tank walls, variations in product quality, vapor and dust have a negligible effect on the readings.

Automated Sensor Test program tells you if circuitry and sensor are fully working. No need to remove the unit from the tank.

Online commissioning of parameters allows for full advantage of sensitivity and accuracy of the instrument: number of counts, set points, adjustable hysteresis, time delay, and output status. You can setup and make setup adjustments from the control room or other remote locations.



precision



Pointek® CLS 200 is the ideal solution for level detection in general process conditions with high chemical and physical abuse . It's a versatile 2-wire capacitance switch with a high chemical resistance for level detection of interfaces, solids, liquids, slurries and foam, and for simple pump control.

Pointek CLS 200 applies a unique approach to capacitance technology that is based on extensive field experience. It includes Inverse Frequency technology and an Advanced Sensitive-Tip, ensuring high accuracy, resolution and repeatability.

Pointek CLS 200 – a million in one

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million
in one

SIEMENS

Technical specifications

Pointek CLS 200		
	Analog	Digital
Power	<ul style="list-style-type: none"> ■ 12 to 250 V AC/DC, 50/60 Hz ■ 2 VA / 2 W maximum ■ 2 VA / 2 W maximum 	<ul style="list-style-type: none"> ■ Standard: 9 to 32 V DC ■ Intrinsically safe: 9 to 24 V DC ■ Explosion proof: 12 to 250 V AC/DC
Performance	<ul style="list-style-type: none"> ■ Measurement frequency: - 5.5 MHz $\epsilon_r = 1$; - 1.1 MHz @ $\epsilon_r = 80$ ■ Repeatability: $\pm 1\%$ of measurement ■ Hysteresis: dependent on ϵ_r; max. 2 mm (0.08") @ $\epsilon_r = 1.5$ 	
Interface		
Configuration	Locally using dip switches and potentiometers	<ul style="list-style-type: none"> ■ Remotely using SIMATIC PDM ■ Locally using 3 button keypad
Display	Transmitter with 3 LED indicators	Local digital LCD display
Communication		<ul style="list-style-type: none"> ■ PROFIBUS PA (IEC 61158 CPF3 CP3/2) ■ Bus physical layer: IEC 61158-2 MBP-(IS) ■ Device profile: PROFIBUS PA profile for Process Control Devices Version 3.0, Class B ■ FISCO field device
Outputs	<ul style="list-style-type: none"> ■ Relay: 1 form 'C' (SPDT), non-inductive ■ Solid state switch ■ Time delay: 'on/off alarm' selectable ■ Fail-safe operation (high or low) ■ Delay timers: 2 	<ul style="list-style-type: none"> ■ Solid-state switch ■ Delay timers: 2 (Fall Time and Rise Time) ■ Time delay: controlled by software ■ Fail-safe operation (high or low) ■ Relay (or mA) output: optional with added pcb board (stand-alone)
Mechanical		
Enclosure	<ul style="list-style-type: none"> ■ Epoxy coated aluminium with gasket ■ Optional thermal isolator, 316 stainless steel (1.4404) ■ Type 4 / NEMA 4 / IP68 ■ Installation category: II ■ Pollution degree: 4 	
Process connection	<ul style="list-style-type: none"> ■ 316 stainless steel (1.4404) (Standard and Cable) ■ Compliant Sanitary flange connector (Sanitary) ■ Thermal Isolator 	
Sensor	<ul style="list-style-type: none"> ■ Sensor PPS (optional: PVDF) ■ Max. 5.5 m (18 ft); extension 316 stainless steel (1.4404) (Standard and Sanitary) ■ Max 35 m (115 ft); extension (stainless steel) with FEP coating (Cable) 	
Process conditions		
Ambient temperature	-40 to 85 °C (-40 to 185 °F)	
Process temperature standard	<ul style="list-style-type: none"> ■ -40 to 85 °C (-40 to 185 °F) ■ Standard with temperature extension: -40 to 125 °C (-40 to 257 °F) ■ Slide coupling: ambient temperature 	
Pressure	<ul style="list-style-type: none"> ■ Standard and rigid extension versions 0 to 25 bar / 365 psi / 2500 kPa, gauge, nominal ■ Cable version 0 to 10 bar / 150 psi gauge, nominal ■ Optimal slide coupling version: ambient pressure 	
Dielectric constant	(ϵ_r): 1.5 minimum	
Location	Indoor/outdoor	
Altitude	2000 m (6562 ft) max.	
Approvals	CE, CSA _{NRTL/C} , FM, 3A, ATEX, WHG/VbF overfill protection (Germany), Vlareem, Lloyd's Register of Shipping, categories ENV1, ENV2, and ENV5	

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Certification No. 002284

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 Inverse Frequency capacitance technology and Advanced Sensitive-Tip technology, and that's why these instruments carry so many patents. With Siemens Milltronics you get the experience of a million applications in one instrument.

