

# SIEMENS

## PROCESS INSTRUMENTATION

# Pointek CLS200

Precise and versatile

[usa.siemens.com/level](http://usa.siemens.com/level)

### Inverse frequency shift capacitance level switch

Pointek CLS200 is a versatile inverse frequency shift capacitance level switch ideal for level detection of liquids, solids, slurries, foam, pump control and interfaces in general process conditions with high chemical and physical abuse. It includes Advanced Sensitive-Tip technology, ensuring high accuracy, resolution and repeatability. The digital version (with PROFIBUS PA) includes a display and provides additional diagnostic features.

- Inverse frequency shift capacitance technology results in higher accuracy and resolution
- Unique potted construction protects signal circuit board from shock, vibration, humidity, and/or condensation
- Insensitive to product buildup due to high frequency oscillation
- Level detection independent of tank or pipe earth ground reference
- Integral LCD display allows for easy setup of CLS200 when you can configure switching threshold, even under the most demanding process conditions
- Standard version: 3 LED indicators for adjustment control, output status and power
- Advanced Sensitive-Tip technology for accurate and repeatable switch point in a wide range of liquids, solids, or slurry applications
- Online commissioning of parameters allows full advantage of the instrument: number of counts, setpoints, adjustable hysteresis, time delay, and output status. You can set up and make adjustments from the control room or other remote locations
- SIL-2 qualified for overspill protection in accordance with IEC 61508





Pointek CLS200	Standard	Digital
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<b>Power</b>	12 to 250 V AC/DC, 0 to 60 Hz max. 2 W	<ul style="list-style-type: none"> <li>Standard: 12 to 30 V DC, 12.5 mA</li> <li>Intrinsically safe: 12 to 24 V DC, 12.5 mA</li> </ul>
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<b>Interface</b>		
<b>Configuration</b>	Locally using dip switches and potentiometers	<ul style="list-style-type: none"> <li>Remotely using SIMATIC PDM</li> <li>Locally using 3 button keypad</li> </ul>
<b>Display</b>	Transmitter with 3 LED indicators	Local digital LCD display
<b>Communication</b>		<ul style="list-style-type: none"> <li>PROFIBUS PA (IEC 61158 CPF3 CP3/2)</li> <li>Bus physical layer: IEC 61158-2 MBP-(IS)</li> <li>Device profile: PROFIBUS PA profile for Process Control Devices Version 3.0, Class B</li> <li>FISCO field device</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>Relay: 1 SPDT Form C relay</li> <li>Time delay: (on and/or off) controlled by user</li> <li>Solid state switch</li> <li>Fail-safe mode</li> </ul>	<ul style="list-style-type: none"> <li>Solid-state switch</li> <li>Time delay: (on and/or off) controlled by user</li> <li>Fail-safe mode</li> </ul>

<b>Mechanical</b>		
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>Epoxy coated aluminum with gasket</li> <li>IP65/Type 4 /NEMA 4 (optional IP68)</li> <li>Installation category: II</li> <li>Pollution degree: 4</li> </ul>	
<b>Process connection</b>	<ul style="list-style-type: none"> <li>316 stainless steel (1.4404) (standard and cable)</li> <li>Thermal Isolator</li> </ul>	
<b>Sensor</b>	<ul style="list-style-type: none"> <li>Sensor PPS (optional: PVDF)</li> <li>Max. 5.5 m (18 ft); extension 316 stainless steel (1.4404) (Standard and Sanitary )</li> <li>Max. 30 m (98.4 ft) liquids and slurries; 5 m (16.4) solids (under loads); extension (stainless steel) with FEP coating (Cable)</li> </ul>	

<b>Process conditions</b>		
<b>Ambient temperature</b>	-40 to 85 °C (-40 to 185 °F)	
<b>Process temperature standard</b>	<ul style="list-style-type: none"> <li>Standard -40 to 85 °C (-40 to 185 °F)</li> <li>With temperature extension: -40 to 125 °C (-40 to 257 °F)</li> </ul>	
<b>Pressure</b>	<ul style="list-style-type: none"> <li>Standard and rigid extension versions -1 to 25 bar g/365 psi g (nominal)</li> <li>Cable version -1 to 10 bar g/150 psi g (nominal)</li> <li>Optimal slide coupling version: -1 to 10 bar g/150 psi g (nominal)</li> </ul>	
<b>Dielectric constant <math>\epsilon_r</math></b>	Min. 1.5	

<b>Approvals</b>		
	CE, CSA, FM, ATEX, SIL-2, C-TICK, WHG Overfill Protection (Germany), Lloyd's Register of Shipping, categories ENV1, ENV2, and ENV5, Pattern Approval (China)	

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 \* Pressure is temperature dependent. SIMATIC PDM is a registered trademark of Siemens.  
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