

Level measurement

Point level measurement **RF** Capacitance switches

Overview



Pointek CLS100 is a compact, 2-wire, inverse frequency shift capacitance switch for level and material detection in constricted spaces, interfaces, solids, liquids, slurries, and foam; with the ability to tune out buildup on probe.

Benefits

- Easy installation with verification by built-in LED
- Low maintenance with no moving parts
- · Sensitivity adjustment
- Integrated cable or PBT enclosure versions available
- Intrinsically Safe, Dust Ignition Proof, and General Purpose options available

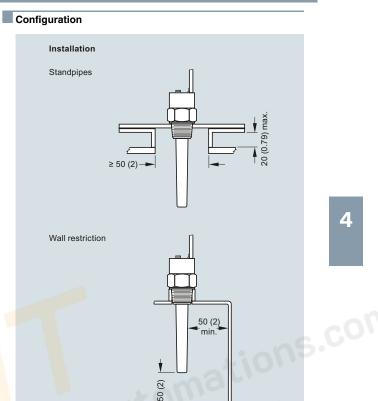
Application

Pointek CLS100's short insertion length of 100 mm (4 inch) and versatility in various applications and in vessels or pipes makes it a good replacement for traditional capacitance sensors.

Its advanced tip-sensing technology provides accurate, repeat-able switchpoint performance. The PPS (Polyphenylene sulfide) probe [optional PVDF (Polyvinylidene Fluoride)] is chemically resistant with an effective process operating temperature range from -30 to +100 °C (-22 to +212 °F) (7ML5501), and -10 to +100 °C (14 to 212 °F) (7ML5610). The fully potted design ensures reliability in a vibrating environment such as agi-tated tanks up to 4 g. When used with a SensGuard protection cover, the CLS100 is protected from shearing, impact, and abrasion in tough primary processes.

The Pointek CLS100 is available in three versions. The integral cable version has a stainless steel process connection and probe options of PPS or PVDF. The fully synthetic version has a thermoplastic polyester enclosure with a PPS process connec-tion combined with a PPS probe. The standard enclosure version has a thermoplastic polyester enclosure with a stainless steel process connection in combination with a PPS or PVDF probe.

· Key Applications: liquids, slurries, powders, granules, food and pharmaceuticals, chemicals, hazardous areas



Pointek CLS100 installation, dimensions in mm (inch) menta

Level measurement

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Pointek CLS100

Technical specifications

Construction capacitive level detection capacitive level detection capacitive level detection material of probe/wetled parts ² fmathers steel; parts ² mathers steel; parts ² and PPS senser process steel; parts ² and PPS senser (In-Construction) Dutput Output signal • Alarn output • Alarn output • Switch output ¹ Change in picoFarad (PF) Change in picoFarad (PF) Connection (Enclosue VEX) Internal Spont terminal block process scenes Renovable internal Spont terminal block process scenes • Alarn output • Switch output ¹ 420204 mA 2.wire loop Solid-state 30 V DC/30 VAC, max 82 mA Accuracy Repeatability 420204 mA 2.wire loop Solid-state 30 V DC/30 VAC, max 82 mA Accuracy Repeatability 420204 mA 2.wire loop VAC, max 82 mA Min. or max. 4		Stainless steel process connection (integral cable or enclosure version) (7ML5501)	Fully synthetic process connection (enclosure version only) (7ML5610)		Stainless steel process connection (integral cable or enclosure version) (7ML5501)	Fully synthetic process connection (enclosure version only) (7ML5610)
capacitive ievel detection capacitive ievel detection capacitive ievel detection material of probe/wetled stainless steel; process search Sensor (PKM); Sensor, PKO; 4) and PPS sensor (Di-Construction) Input Change in picoFarad (pF) Change in picoFarad (pF) Change in picoFarad (pF) conductors Output Cutput signal	Mode of operation			Sensor length (nominal)	100 mm (4 inch)	100 mm (4 inch)
Measured variable Change in picoFarad (pF) Change in picoFarad (pF) Change in picoFarad (pF) Connection (Enclosure version) Connection (Enclosure Version) Connection (Enclosure Version) Connection (Enclosure Version) Connection (Enclosure Version) Removable internal block. Removable internal Spont terminal Version) Removable internal Spont terminal Spont terminal Version) Not applicable • Anison output 420204 mA 2virte loop VAC, max 82 mA Not applicable Not applicable * Fail-safe mode Min. or max. Min. or max. Min. or max. Not applicable Not applicable Accuracy Read opergrating contitions ⁹ 2 mm (0.08 inch) 2 mm (0.08		capacitive level	capacitive level	material of probe/wetted	stainless steel; Process seal: FKM (optional FFKM);	
Metail Comparison building Connection (Enclosure (PF) Connection (Enclosure version) Internal 5-point terminal block, Weision Removable internal S-point terminal block, Weision Output Alarm output 4,2020, 4 mA 2,4 mA 4,4	•					
Output Output<	Measured variable			Connection (Enclosure		Demovable internel
 Alarm output Switch output¹) Switch output¹)	•				block, 1/2" NPT wiring entrance,	5-point terminal block, 1/2" NPT wiring entrance,
 Switch output¹) Switch output¹)<	 Alarm output 			Connection		
1 A Process connection ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US B 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US D 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US D 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US D 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT (US-T), US D 0203] ¾' NPT [(Taper), ANSI/ASME B1.20.1] R 1' [(BSPT), EN 10226/PT, C 2 33 V DC 12 33 V DC 12 33 V DC 1 - 10 barg 0 (-14.6+136 5°F) 1 1 10 30 V DC Not applicable Not applicable Not applicable • Process temperature30+100 °C (-22+212 °F) -10+100 °C (-14.6+146 psi g), nominal 1 1 1 <	• Switch output ¹⁾	Solid-state: 30 V DC/30	Max. switching voltage: 60 V DC/30 V AC		(3.3 ft), 0.5 mm ² (22 AWG), shielded,	
The sum of Male Mills of Male R 11 ([GSPT), ST ([GSPT			1 A	Process connection		
Pepeatability 2 mm (0.08 inch) 2 mm (0.08 inch) 2 mm (0.08 inch) JIS B 0203] JIS B 0203] JIS B 0203] Rated operating conditions Indoor/outdoor Indoor/outdoor Indoor/outdoor G 1 (IRSPP), JIS B 02021 JIS B 0203] Installation conditions Indoor/outdoor Indoor/outdoor Indoor/outdoor JIS B 0203] JIS B 0203]<		Min. or max.	Min. or max.		R 1" [(BSPT),	R 1" [(BSPT),
Refere operating conditions ³¹ 2 mm (0.06 mCh) 2 mm (0.06 mCh) 2 mm (0.06 mCh) Rate operating conditions ³¹ Indoor/outdoor Indoor/outdoor Indoor/outdoor Ambient conditions Indoor/outdoor Indoor/outdoor Indoor/outdoor Ambient conditions -30 +85 °C -10 +85 °C -10 +85 °C • Storage temperature -30 +85 °C -40 +85 °C -40 +85 °C • Installation category I Intrinsically Safe barrier required) Not applicable • Installation category I Intrinsically Safe barrier required) • General: CE, CSA, FM, • General: CSA, FM RCM • Pollution degree 4 Intrinsically Safe barrier required) • General: CE, CSA, FM, • General: CSA, FM • Process temperature • Goneral: CE, CSA, FM, • Intrinsically Safe barrier required) • General: CE, CSA, FM, • General: CSA, FM • Process temperature • Goneral: CE, CSA, FM, • Intrinsically Safe barrier (-22 + 212 °F) -10 + 100 °C (-14.6 + 146 psi g), nominal • Intrinsically Safe barrier required) • Degree of protection • Enclosure version IP68/Type 4/NEMA 4 • Integria cable version IP68/Type 4/NEMA 4 • Integria cable version IP68/Type 4/NEMA 4 • Not applicable • Naterial • Body (Enclosure version)						
conditions ³ JIS B 0202] Installation conditions Indoor/outdoor Indoor/outdoor Ambient conditions Indoor/outdoor Indoor/outdoor Ambient temperature -30 +85 °C -10 +85 °C Storage temperature -40 +85 °C -40 +85 °C (40 + 185 °F) (14 185 °F) (40 + 185 °F) Installation category I Intrinsically Safe Oceneral: CE, CSA, FM, • General: CSA, FM Pollution degree 4 Marine: Lloyds Register of Shipping, categories ENV1, ENV2, and ENV5 Process temperature -30 +100 °C -10 +100 °C -10 +100 °C (-14.6 + 146 psi g), nominal -11 +10 bar g (-14.6 + 146 psi g), nominal Ocentral: CE, CSA, FM, • General: CE,		2 mm (0.08 inch)	2 mm (0.08 inch)		G 1" [(BSPP),	010 D 0200]
Location Indoor/outdoor Indoor/outdoor Standard 12 33 V DC 12 33 V DC 12 33 V DC 12 33 V DC Not applicable Ambient conditions -30 +85 °C -10 +85 °C 14 185 °F) Intrinsically Safe 10 30 V DC Not applicable • Storage temperature -40 +85 °C -40 +120 °C Certificates and approvals -General: CE, CSA, FM, •General: CSA, FM -General: CE, CSA,	conditions ²⁾			Provenski -		12 33 V DC Not applicable
Ambient conditions -30+85 °C -10+85 °C -10+185 °F Not applicable • Storage temperature -40+85 °C -40+185 °F -40+10 °C -50+100 °C -20+100 °C -20+100 °C -20+100 °C -20		Indoor/outdoor	Indoor/outdoor		10 001/00	10 001/00
 Ambient temperature -30 + 85 °C -10 + 85 °C (-22 + 185 °F) (14 185 °F) (-40 + 85 °C (-40 + 185 °F) (-40 + 100 °C (-11 + 100 °C (-11 + 10 bar g (-14 + 146 psi g), nominal Pressure (vessel) -1 + 10 bar g (-14 + 146 psi g), nominal (-14 + 146 psi g), nominal P68/Type 4/NEMA 4 Integral cable version Enclosure version Enclosure version P68/Type 4/NEMA 4 Integral cable version P68/Type 4/NEMA 4 Not applicable Went synthetic version Version Thermoplastic polyester 		Indoor/oddoor	madonyoutadon			12 33 V DC
(-40 + 185 °F) (-40 + 185 °F) (-40 + 185 °F) (-40 + 185 °F) Installation category I I I Pollution degree 4 4 Medium conditions I I Pollution degree 4 4 Medium conditions Image: Constant error of the integral color of the integ		(-22 +185 °F)	(14 185 °F)	Intrinsically Safe	(Intrinsically Safe barrier	Not applicable
 Pollution degree 4 4 4 Marine: Lloyds Rediative dielectric constant <i>e_r</i> Process temperature -30 +100 °C (-22 +212 °F) (14 212 °F) Pressure (vessel) -1 +10 bar g (-14.6 +146 psi g), nominal² Degree of protection - Enclosure version in [P68/Type 4/NEMA 4] Integral cable version in [P68/Type 4/NEMA 4] Cable inlet ½⁴ NPT (M20 x 1.5 optional) Design Enclosure/Integral cable Fully synthetic version Version Thermoplastic polyester Thermoplastic polyester 						General: CSA, FM
Medium conditions Relative dielectric constant e_r Min. 1.5 Min. 1.5 Min. 1.5 Process temperature -30 +100 °C (-22 +212 °F) -10 +100 °C (-22 +212 °F) C14 212 °F) Pressure (vessel) -1 +10 bar g (-14.6 +146 psi g), nominal ²) -1 +10 bar g (-14.6 +146 psi g), nominal ²) Div. 1, Groups E, F, G Degree of protection IP68/Type 4/NEMA 4 IP68/Type 4/NEMA 4 Intrinsically Safe (barrier required): CSA/FM Class I, II, and III, Div. 1, Groups A, B, C, D, E, F, G T4 Integral cable version IP68/Type 4/NEMA 4 Not applicable C, D, E, F, G T4 Actexial V* NPT (M20 x 1.5 optional) ½* NPT (M20 x 1.5 optional) Enclosure/Integral cable Material Thermoplastic polyester Thermoplastic polyester Thermoplastic polyester Thermoplastic polyester	0,	4	4			
• Netative diffecting constant ϵ_r Will, 1.3 Dust Ignition Proof (barrier required): CSA/FM Class II and III, Div. 1, Groups E, F, G • Process temperature -30 +100 °C (-22 +212 °F) -10 +100 °C (14 212 °F) CSA/FM Class II and III, Div. 1, Groups E, F, G • Pressure (vessel) -1 +10 bar g (-14.6 +146 psi g), nominal ² -1 +10 bar g (-14.6 +146 psi g), nominal -1 +10 bar g (-14.6 +146 psi g), nominal -1 +10 bar g (-14.6 +146 psi g), nominal • Degree of protection IP68/Type 4/NEMA 4 IP68/Type 4/NEMA 4 IP68/Type 4/NEMA 4 • Integral cable version IP68/Type 4/NEMA 4 Not applicable ½' NPT (M20 x 1.5 optional) IP68/Type 4/NEMA 4 • Cable inlet ½' NPT (M20 x 1.5 optional) ½' NPT (M20 x 1.5 optional) ½' NPT (M20 x 1.5 optional) • Body (Enclosure version) Thermoplastic polyester Thermoplastic polyester Thermoplastic polyester	Medium conditions				categories ENV1,	
 Process temperature -30 + 100 °C -10 + 100 °C -22 + 212 °F) (14 212 °F) -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g (-14.6 + 146 psi g), nominal -1 + 10 bar g -1 + 10 bar	constant ϵ_r				Dust Ignition Proof	
 Pressure (vessel) -1+10 bar g (-14.6+146 psi g), nominal²) Degree of protection Enclosure version IP68/Type 4/NEMA 4 P68/Type 4/NEMA 4 P68/Type 4/NEMA 4 Not applicable Cable inlet Version Version Thermoplastic polyester Thermoplastic polyester Thermoplastic polyester 	 Process temperature 				CSA/FM Class II and III,	
Degree of protection Enclosure version P68/Type 4/NEMA 4 IP68/Type 4/NEMA 4 IP68/Type 4/NEMA 4 IP68/Type 4/NEMA 4 Not applicable Yz' NPT (M20 x 1.5 optional) Pesign Thermoplastic polyester Thermoplastic po	 Pressure (vessel) 				T4	
Degree of protection Enclosure version Pf68/Type 4/NEMA 4 Integral cable version Pf65/Type 4/NEMA 4 Not applicable Yz' NPT (M20 x 1.5 optional) Pf5/Type 4/NEMA 4 Not applicable Yz'' NPT (M20 x 1.5 optional) Pesign Enclosure/Integral cable Fully synthetic version Version Thermoplastic polyester		nominal ²⁾				
Integral cable version IP65/Type 4/NEMA 4 Var applicable					CSA/FM Class I, II, and	
Cable inlet						
Design Enclosure/Integral cable Fully synthetic version Overfill protection: WHG (Germany) Material * Body (Enclosure version) Thermoplastic polyester Thermoplastic polyester Thermoplastic polyester		1/2" NPT (M20 x 1.5	1/2" NPT (M20 x 1.5		ATEX II 1 GD 1/2GD EEx ia IIC T4 to T6	
version 1) When synthetic process connection version (7ML5610) is used in wet locations, switching voltage of the relay is limited to 35 V DC/16 V AC. • Body (Enclosure version) Thermoplastic polyester Thermoplastic polyester 2) When operation is in areas classified as hazardous, observe restriction according to relevant certificate.	Design	Enclosure/Integral cable	Fully synthetic version		Overfill protection:	
 Material Body (Enclosure version) Thermoplastic polyester Thermoplasti		version		1) When synthetic proces	ss connection version (7MI	_5610) is used in wet
(Enclosure version) according to relevant certificate.		Theorem is a first in the second	The sum and so the state	locations, switching vo	oltage of the relay is limited	to 35 V DC/16 V AC.
		i nermoplastic polyester	i nermoplastic polyester			us, observe restrictions
Lid (Enclosure version) Transparent thermoplas- Transparent thermoplas- See also Pressure/Temperature curves on page 5/13.				See also Pressure/Terr	perature curves on page (5/13.
tic polycarbonate (PC) tic polycarbonate (PC) Integrated cable body 316L stainless steel Not applicable Not applicable State of the polycarbonate (PC) Not applicable State of the polycarbonate (PC) Sta	 Integrated cobie body 			3) For caustic materials,	consult a local sales perso	n for alternative O-rings.

 $^{4)}$ When FFKM O-ring (Option A22) is selected, process temperature is restricted to -20 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}\text{)}.$

Level measurement

Article No.

Point level measurement RF Capacitance switches

Pointek CLS100

Selection and ordering data	A	rti	Clo	e N	0.
Pointek CLS100 RF Capacitance point level switch, stainless steel process connection Detects level and interface in liquids, solids, slurries and foam. Compact, with 100 mm (4 inch) insertion, adaptable sensitivity, with the ability to tune out build-up on probe.		-		i01-	
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Process Connection ¾" NPT [(Taper), ANSI/ASME B1.20.1] R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]		A E J			
Approvals General Purpose: CE, CSA, FM, RCM CSA/FM Class I, II, and III, Div. 1, Groups A, B, C, D, E, F, G T4; ATEX II 1 GD ½ GD EEx ia IIC 74 T6 T107 °C ¹⁾ CSA/FM Class II and III, Div. 1, Groups E, F, G ¹⁾			A C G		
Device version Integral cable version (PPS probe) Enclosure version (PPS probe), ½" NPT cable inlet Integral cable version with PVDF probe body Enclosure version with PVDF probe body (½" NPT cable inlet) Enclosure version (PPS probe), M20 x 1.5 cable inlet Enclosure version with PVDF probe body, M20 x 1.5 cable inlet				1 3 5 6 7	
Overfill protection Not required Required (WHG) ¹⁾ Barrier or Intrinsically Safe power supply required Safe protection.	or	Inti	rins	C 1 Sica	
Further designs Please add "-Z" to Article No.	C)rd	er	coc	de

randici accigito	01001 0000
Please add "-Z" to Article No. and specify Order code(s).	
Stainless steel tag [70 x 13 mm (2.75 x 0.5 inch)]: Measuring-point number/identification (max. 20 characters) specify in plain text	¥17
FFKM seal O-ring ¹⁾	A22
Material inspection Certificate Type 3.1 per EN 10204	C12
INMETRO ²⁾	E34
Operating Instructions	
Note: due to ATEX regulations one Quick start manual is included with every product. All literature is available to download for free, in a range of languages, at	

http://www.siemens.com/processinstrumentation/documentation

¹⁾ See Temperature restriction on page 4/14.

²⁾ Available only with Approvals option C.

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Accessories	Article No.
SensGuard, ¾" NPT (PPS). Only available for CLS100 with ¾" NPT thread.	7ML1830-1DL
SensGuard, R 1" (BSPT) (PPS). Only available for CLS100 with 3/4" NPT thread.	7ML1830-1DM
Tag, stainless steel, 12 x 45 mm (0.47 x 1.77 inch), one text line, suitable for enclosures	7ML1930-1AC
Siemens Intrinsically Safe Barrier (DC powered), ATEX II 1 G EEx ia	7NG4124-0AA00
½* NPT General Purpose Cable Entry IP68/IP69K NEMA 6, -40 +80 °C (-40 +176 °F), Dust Ignition Proof, cable size 6 12 mm (0.236 0.472 inch)	7ML1830-1JA
M20 x 1.5 General Purpose Cable Entry IP68/IP69K NEMA 6, -40 +80 °C (-40 +176 °F), Dust Ignition Proof, cable size 7 12 mm (0.275 0.472 inch)	7ML1830-1JC

	AILICIE NO.
Pointek CLS100 RF Capacitance point level switch, PPS process connection	7ML 3610-
Detects level and interface in liquids, solids, slurries, and foam. Compact, with 100 mm (4 inch) insertion, adaptable sensitivity, with the ability to tune out build-up on probe.	
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	
Process connection (PPS) 3/4" NPT [(Taper), ANSI/ASME B1.20.1]	Α
(PPS probe body)	^
R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] (PPS probe body)	В
Approvals	
General Purpose: CSA, FM	D
Versions/Options	
Enclosure version, PPS process connection, 1/2" NPT cable inlet	1
Enclosure version, PPS process connection, M20 x 1.5	2
Overfill protection	
Not required	0
Required	1
Further designs	Order code
Please add "-Z" to Article No. and specify Order code(s).	
Stainles <mark>s ste</mark> el tag [70 x 13 mm (2.75 x 0.5 inch)]: Measuring-point number/identification (max. 20 characters) specify in plain text	Y17
Material in <mark>spe</mark> ction Certificate Type 3.1 per EN 10204	C12
Operating Instructions	
Note: due to ATEX regulations one Quick start manual is included with every product. All literature is available to download for free, in a range of languages, at	ding
http://www.siemens.com/processinstrumentation/docu	umentation
Accessories	Article No.
SensGuard, ¾" NPT (PPS). Only available for CLS100 with ¾" NPT thread.	7ML1830-1DL
SensGuard, R 1" (BSPT) (PPS). Only available for CLS100 with 3/4" NPT thread.	7ML1830-1DM
Tag, stainless steel, 12 x 45 mm, (0.47 x 1.77 inch) one text line, suitable for enclosures	7ML1930-1AC

¹⁾ See Temperature restriction on page 4/14.

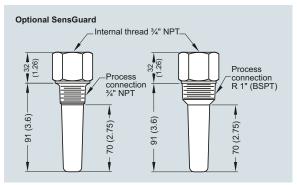
Level measurement

Point level measurement RF Capacitance switches

Pointek CLS100

Options

4



Optional SensGuard, dimensions in mm (inch)

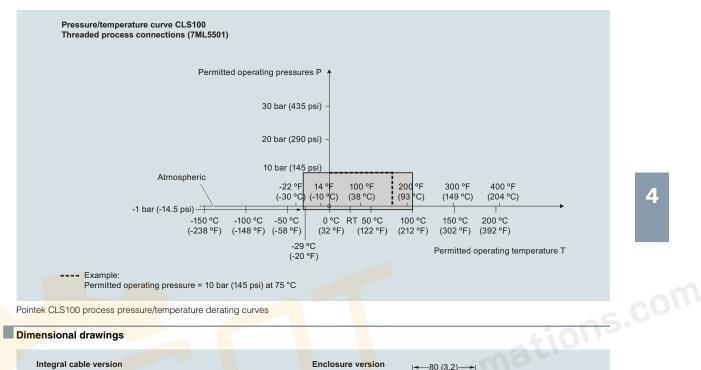
www.gotautomations.com www.gotautomations.com GreatOrientalTrading

Level measurement

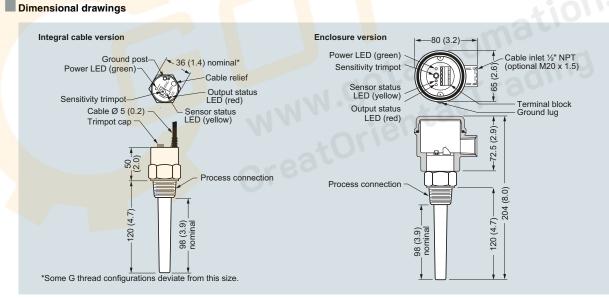
Point level measurement **RF** Capacitance switches

Pointek CLS100

Characteristic curves



Pointek CLS100 process pressure/temperature derating curves



Pointek CLS100, dimensions in mm (inch)

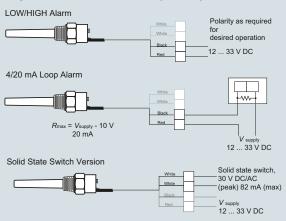
Level measurement

Point level measurement **RF** Capacitance switches

Pointek CLS100

Circuit diagrams

Integral Cable Version - Non Intrinsically Safe only



Enclosure and Fully Synthetic Version



When driving an inductive load (for example, an external relay), a protection diode must be connected in the correct polarity to prevent possible switch damage due to inductive spikes generated by switching the inductor (please refer to instruction manual). Intrinsically Safe Models - please follow local regulations and area classifications; refer to instruction manual for more details.

Pointek CLS100 connections

Note:

บริษัท เกรทโอเรียนเต็ล เทรดดิ้ง จำกัด เลขที่ 1049 ถนนร่วมธรรม ตำบลคอหงส์ อำเภอหาดใหญ่ จังหวัดสงขลา 90110 074-300212-4



4