

Level Measurement

Point level measurement – Capacitance switches

Pointek CLS300 – Standard

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Selection and Ordering data	Article No.
Pointek CLS300 - Standard - Rod Version with Threaded or Flanged process connection	7ML5650-
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.	
Process connection	
<u>Threaded, 316L stainless steel</u>	
¾" NPT [(Taper), ANSI/ASME B1.20.1]	0 A
1" NPT [(Taper), ANSI/ASME B1.20.1]	0 B
1¼" NPT [(Taper), ANSI/ASME B1.20.1]	0 C
1½" NPT [(Taper), ANSI/ASME B1.20.1]	0 D
R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 A
R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 B
R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 D
G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 A
G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 B
G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 D
<u>Welded flange, 316L stainless steel, raised face</u>	
1" ASME, 150 lb	5 A
1" ASME, 300 lb	5 B
1" ASME, 600 lb	5 C
1½" ASME, 150 lb	5 D
1½" ASME, 300 lb	5 E
1½" ASME, 600 lb	5 F
2" ASME, 150 lb	5 G
2" ASME, 300 lb	5 H
2" ASME, 600 lb	5 J
3" ASME, 150 lb	5 K
3" ASME, 300 lb	5 L
3" ASME, 600 lb	5 M
4" ASME, 150 lb	5 N
4" ASME, 300 lb	5 P
4" ASME, 600 lb	5 Q
<u>Welded flange, 316L stainless steel, Type A flat faced</u>	
DN 25, PN 16	6 A
DN 25, PN 40	6 B
DN 40, PN 16	6 C
DN 40, PN 40	6 D
DN 50, PN 16	6 E
DN 50, PN 40	6 F
DN 80, PN 16	6 G
DN 80, PN 40	6 H
DN 100, PN 16	6 J
DN 100, PN 40	6 K
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)	
Probe length (length from flange face) (threaded lengths include process thread)	
<u>Note: No Y01 needed in Order code for standard lengths</u>	
Standard version, rod 350 mm (13.78 inch)	A
Extended rod, length 500 mm (19.69 inch)	B
Extended rod, length 750 mm (29.53 inch)	C
Extended rod, length 1 000 mm (39.37 inch)	D


Selection and Ordering data	Article No.
Pointek CLS300 - Standard - Rod Version with Threaded or Flanged process connection	7ML5650-
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.	
Add Order code Y01 and plain text:	
<u>"Insertion length ... mm"</u>	
Extended rod, factory adjusted length 250 ... 499 mm (9.8 ... 19.65 inch)	E
Extended rod, factory adjusted length 500 ... 749 mm (19.69 ... 29.49 inch)	F
Extended rod, factory adjusted length 750 ... 999 mm (29.53 ... 39.3 inch)	G
Thermal isolator	
Without thermal isolator	0
With thermal isolator [for process connection temperatures over 85 °C (185 °F)]	1
Wetted seals	
FKM	0
FFKM [for process temperatures above -20 °C (-4 °F)]	1
Probe material	
316L stainless steel with PFA lining and PEEK isolators	0
Approvals	
Dust Ignition Proof with IS Probe: CE, C-TICK, ATEX II 1/2 D T100 °C	C
Flameproof Enclosure with IS Probe: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T1, ATEX II 1/2 D T100 °C	D
Flameproof Enclosure with IS Probe, with WHG approval: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T1, ATEX II 1/2 D T100 °C	E
Dust Ignition Proof with IS Probe: CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4	F
Explosion Proof Enclosure with IS Probe: CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4	G
General Purpose (CSA, FM)	H
General Purpose (CE, C-TICK)	J
General Purpose with WHG approval (CSA, FM, CE, C-TICK)	K
Enclosure and lid	
<u>Aluminum epoxy coated</u>	
2 x ½" NPT via adapter - cable inlet, IP65	A
2 x M20x1.5 cable inlet, IP65	B
2 x ½" NPT via adapter - cable inlet, IP68	C
2 x M20x1.5 cable inlet, IP68	D
Active shield length	
Standard length - (125 mm threaded, 105 mm flanged)	0
Extended shield - (250 mm threaded, 230 mm flanged) ¹⁾	1
Extended shield - (400 mm threaded, 380 mm flanged) ²⁾	2
¹⁾ Available with Probe version options B ... D, F, G only [≥ 500 mm (19.69 inch)]	
²⁾ Available with Probe version options C, D, and, G only [≥ 750 mm (29.53 inch)]	

• We can offer shorter delivery times for configurations designated with the Quick Ship Symbol •. For details see page 9/5 in the appendix.

Level Measurement

Point level measurement – Capacitance switches

Pointek CLS300 – Standard

Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs		Pointek CLS300 - Standard - Cable Version with Threaded or Flanged process connection	7ML5651-
Please add "-Z" to Article No. and specify Order code(s).		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.	
Total insertion length: enter the total insertion length in plain text description	Y01	Process connection	
Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15	<u>Threaded, 316L stainless steel</u>	
Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	C11	1¼" NPT [(Taper), ANSI/ASME B1.20.1]	0 C
Inspection Certificate Type 3.1 per EN 10204	C12	1½" NPT [(Taper), ANSI/ASME B1.20.1]	0 D
Operating Instructions		R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 D
Note: The Operating Instructions should be ordered as a separate line on the order. This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and manual library.	See page 4/59	G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 D
Accessories	See page 4/59	<u>Welded flange, 316L stainless steel, raised face</u>	
<ul style="list-style-type: none"> We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix. 		1½" ASME, 150 lb	5 D
		1½" ASME, 300 lb	5 E
		1½" ASME, 600 lb	5 F
		2" ASME, 150 lb	5 G
		2" ASME, 300 lb	5 H
		2" ASME, 600 lb	5 J
		3" ASME, 150 lb	5 K
		3" ASME, 300 lb	5 L
		3" ASME, 600 lb	5 M
		4" ASME, 150 lb	5 N
		4" ASME, 300 lb	5 P
		4" ASME, 600 lb	5 Q
		<u>Welded flange, 316L stainless steel, Type A flat faced</u>	
		DN 40, PN 16	6 C
		DN 40, PN 40	6 D
		DN 50, PN 16	6 E
		DN 50, PN 40	6 F
		DN 80, PN 16	6 G
		DN 80, PN 40	6 H
		DN 100, PN 16	6 J
		DN 100, PN 40	6 K
		(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)	
		Probe length (length from flange face) (threaded lengths include process thread)	
		<u>Note: No Y01 needed in Order code for standard lengths</u>	
		Extended cable, 3 000 mm (118.11 inch), length can be shortened by customer	A
		Extended cable, 6 000 mm (236.22 inch), length can be shortened by customer	B
		<u>Add Order code Y01 and plain text: "Insertion length ... mm"</u>	
		Extended cable, 500 ... 1 000 mm (19.69 ... 39.37 inch)	E
		Extended cable, 1 001 ... 5 000 mm (39.41 ... 196.85 inch)	F
		Extended cable, 5 001 ... 10 000 mm (196.89 ... 393.70 inch)	G
		Extended cable, 10 001 ... 15 000 mm (393.74 ... 590.55 inch)	H
		Extended cable, 15 001 ... 20 000 mm (590.59 ... 787.40 inch)	J
		Extended cable, 20 001 ... 25 000 mm (787.44 ... 984.25 inch)	K
		Thermal isolator	
		Without thermal isolator	0
		With thermal isolator [for process connection temperatures over 85 °C (185 °F)]	1

Level Measurement

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Pointek CLS300 – Standard

Selection and Ordering data

Article No.

Pointek CLS300 - Standard - Cable Version with Threaded or Flanged process connection

7ML5651-

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.

Wetted seals

FKM 0
FFKM [for process temperatures above -20 °C (-4 °F)] 1

Probe material

Bare 316L stainless steel cable, PEEK isolators and 316L stainless steel cable weight 0
PFA coated cable, PEEK isolators and 316L stainless steel cable weight 1

Approvals

Dust Ignition Proof with IS Probe: CE, C-TICK, ATEX II 1/2 D T100 °C C
Flameproof Enclosure with IS Probe: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T1, ATEX II 1/2 D T100 °C D
Flameproof Enclosure with IS Probe, with WHG approval: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T1, ATEX II 1/2 D T100 °C E
Dust Ignition Proof with IS Probe: CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 F
Explosion Proof Enclosure with IS Probe: CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 G
General Purpose (CSA, FM) H
General Purpose (CE, C-TICK) J
General Purpose with WHG approval (CSA, FM, CE, C-TICK) K

Enclosure and lid

Aluminum epoxy coated

2 x 1/2" NPT via adapter - cable inlet, IP65 A
2 x M20x1.5 cable inlet, IP65 B
2 x 1/2" NPT via adapter - cable inlet, IP68 C
2 x M20x1.5 cable inlet, IP68 D

Active shield length

Standard length - (125 mm threaded, 105 mm flanged) 0
Extended shield - (250 mm threaded, 230 mm flanged)¹⁾ 1
Extended shield - (400 mm threaded, 380 mm flanged)¹⁾ 2

¹⁾ Available with Probe version options A, B, F ... K, only [≥ 1 000 mm (39.7 inch)]

We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix.

Selection and Ordering data

Order code

Further designs

Please add "-Z" to Article No. and specify Order code(s).

Total insertion length: enter the total insertion length in plain text description **Y01**

Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text **Y15**

Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000 **C11**

Inspection Certificate Type 3.1 per EN 10204 **C12**

Operating Instructions

Note: The Operating Instructions should be ordered as a separate line on the order. This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and manual library.

See page 4/59



Accessories

See page 4/59

Level Measurement

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Pointek CLS300 – Standard

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
Pointek CLS300 - Standard - High Temperature Rod Version with Threaded or Flanged process connection 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.	7ML5652- 	Pointek CLS300 - Standard - High Temperature Rod Version with Threaded or Flanged process connection 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.	7ML5652- 
Process connection <u>Threaded, 316L stainless steel</u> ¾" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 A 1" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 B 1¼" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 C 1½" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 D R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ● 1 A R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ● 1 B R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ● 1 D G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ● 3 A G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ● 3 B G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ● 3 D		Add Order code Y01 and plain text: <u>"Insertion length ... mm"</u> Extended rod, factory adjusted length 250 ... 499 mm (9.8 ... 19.65 inch) ● E Extended rod, factory adjusted length 500 ... 749 mm (19.69 ... 29.49 inch) ● F Extended rod, factory adjusted length 750 ... 999 mm (29.53 ... 39.3 inch) ● G	
<u>Welded flange, 316L stainless steel, raised face</u> 1" ASME, 150 lb ● 5 A 1" ASME, 300 lb ● 5 B 1" ASME, 600 lb ● 5 C 1½" ASME, 150 lb ● 5 D 1½" ASME, 300 lb ● 5 E 1½" ASME, 600 lb ● 5 F 2" ASME, 150 lb ● 5 G 2" ASME, 300 lb ● 5 H 2" ASME, 600 lb ● 5 J 3" ASME, 150 lb ● 5 K 3" ASME, 300 lb ● 5 L 3" ASME, 600 lb ● 5 M 4" ASME, 150 lb ● 5 N 4" ASME, 300 lb ● 5 P 4" ASME, 600 lb ● 5 Q		Wetted seals Graphite ● 0 Probe material 316L stainless steel with ceramic (ZrO ₂) isolators ● 0	
<u>Welded flange, 316L stainless steel, Type A flat faced</u> DN 25, PN 16 ● 6 A DN 25, PN 40 ● 6 B DN 40, PN 16 ● 6 C DN 40, PN 40 ● 6 D DN 50, PN 16 ● 6 E DN 50, PN 40 ● 6 F DN 80, PN 16 ● 6 G DN 80, PN 40 ● 6 H DN 100, PN 16 ● 6 J DN 100, PN 40 ● 6 K		Approvals Dust Ignition Proof with IS Probe: CE, C-TICK, ATEX II 1/2 D T100 °C ● C Flameproof Enclosure with IS Probe: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T1, ATEX II 1/2 D T100 °C ● D Flameproof Enclosure with IS Probe, with WHG approval: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T1, ATEX II 1/2 D T100 °C ● E Dust Ignition Proof with IS Probe: CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 ● F Explosion Proof Enclosure with IS Probe: CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 ● G General Purpose (CSA, FM) ● H General Purpose (CE, C-TICK) ● J General Purpose with WHG approval (CSA, FM, CE, C-TICK) ● K	
Probe length (length from flange face) (threaded lengths include process thread) <u>Note: No Y01 needed in Order code for standard lengths</u> Standard version rod 350 mm (13.78 inch) ● A Extended rod, length 500 mm (19.69 inch) ● B Extended rod, length 750 mm (29.53 inch) ● C Extended rod, length 1 000 mm (39.37 inch) ● D		Enclosure and lid <u>Aluminum epoxy coated</u> 2 x ½" NPT via adapter - cable inlet, IP65 ● A 2 x M20x1.5 cable inlet, IP65 ● B 2 x ½" NPT via adapter - cable inlet, IP68 ● C 2 x M20x1.5 cable inlet, IP68 ● D	
		Active shield length Standard length - (125 mm threaded, 105 mm flanged) ● 0 Extended shield - (250 mm threaded, 230 mm flanged) ¹⁾ ● 1 Extended shield - (400 mm threaded, 380 mm flanged) ²⁾ ● 2	
		1) Available with Probe version options B ... D, F, G only [≥ 500 mm (19.69 inch)] 2) Available with Probe version options C, D, and, G only [≥ 750 mm (29.53 inch)] ● We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ●. For details see page 9/5 in the appendix.	

Level Measurement

Point level measurement – Capacitance switches

Pointek CLS300 – Standard

Selection and Ordering data	Order code
Further designs	
Please add '-Z' to Article No. and specify Order code(s).	
Total insertion length: enter the total insertion length in plain text description	◆ Y01
Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	◆ Y15
Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	◆ C11
Inspection Certificate Type 3.1 per EN 10204	◆ C12
Operating Instructions	
Note: The Operating Instructions should be ordered as a separate line on the order. This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and manual library.	See page 4/59
Accessories	
◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.	See page 4/59

Level Measurement

Point level measurement – Capacitance switches

Pointek CLS300 – Digital

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
Pointek CLS300 - Digital - Rod with Threaded or Flanged process connection 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.	7ML5660-	Pointek CLS300 - Digital - Rod with Threaded or Flanged process connection 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.	7ML5660-
Process connection <u>Threaded, 316L stainless steel</u> ¾" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 A 1" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 B 1¼" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 C 1½" NPT [(Taper), ANSI/ASME B1.20.1] ● 0 D R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ● 1 A R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ● 1 B R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] ● 1 D G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ● 3 A G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ● 3 B G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] ● 3 D		Add Order code Y01 and plain text: <u>"Insertion length ... mm"</u> Extended rod, factory adjusted length 250 ... 499 mm (9.8 ... 19.65 inch) ● E Extended rod, factory adjusted length 500 ... 749 mm (19.69 ... 29.49 inch) ● F Extended rod, factory adjusted length 750 ... 999 mm (29.53 ... 39.3 inch) ● G	
<u>Welded flange, 316L stainless steel, raised face</u> 1" ASME, 150 lb ● 5 A 1" ASME, 300 lb ● 5 B 1" ASME, 600 lb ● 5 C 1½" ASME, 150 lb ● 5 D 1½" ASME, 300 lb ● 5 E 1½" ASME, 600 lb ● 5 F 2" ASME, 150 lb ● 5 G 2" ASME, 300 lb ● 5 H 2" ASME, 600 lb ● 5 J 3" ASME, 150 lb ● 5 K 3" ASME, 300 lb ● 5 L 3" ASME, 600 lb ● 5 M 4" ASME, 150 lb ● 5 N 4" ASME, 300 lb ● 5 P 4" ASME, 600 lb ● 5 Q		Thermal isolator Without thermal isolator ● 0 With thermal isolator [for process connection temperatures over 85 °C (185 °F)] ● 1	
<u>Welded flange, 316L stainless steel, Type A flat faced</u> DN 25, PN 16 ● 6 A DN 25, PN 40 ● 6 B DN 40, PN 16 ● 6 C DN 40, PN 40 ● 6 D DN 50, PN 16 ● 6 E DN 50, PN 40 ● 6 F DN 80, PN 16 ● 6 G DN 80, PN 40 ● 6 H DN 100, PN 16 ● 6 J DN 100, PN 40 ● 6 K		Wetted seals FKM ● 0 FFKM [for process temperatures above -20 °C (-4 °F)] ● 1	
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.) Probe length (length from flange face) (threaded lengths include process thread) <u>Note: No Y01 needed in Order code for standard lengths</u> Standard version, rod 350 mm (13.78 inch) ● A Extended rod, length 500 mm (19.69 inch) ● B Extended rod, length 750 mm (29.53 inch) ● C Extended rod, length 1 000 mm (39.37 inch) ● D		Probe material 316L stainless steel with PFA lining and PEEK isolators ● 0	
		Approvals Dust Ignition Proof: CE, C-TICK, ATEX II 1/2 D, 2 D IP6X T100 °C ● B Intrinsically Safe ¹⁾ CE, C-TICK, ATEX II 1 G EEx ia IIC T6...T4, ATEX II 1/2 D, 2 D IP6X T100 °C ● C Flameproof Enclosure with IS Probe: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T4, ATEX II 1/2 D T100 °C ● D Dust Ignition Proof with IS Probe: CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 ● E Intrinsically Safe ¹⁾ CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 ● F Explosion Proof Enclosure with IS Probe: CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 ● G General Purpose (CSA, FM) ● H General Purpose (CSA, FM, CE, C-TICK) ● J	
		Enclosure and Lid <u>Aluminum epoxy coated</u> 2 x ½" NPT via adapter - cable inlet, IP65 ● A 2 x M20x1.5 cable inlet, IP65 ● B 2 x ½" NPT via adapter - cable inlet, IP68 ● C 2 x M20x1.5 cable inlet, IP68 ● D	
		Active shield length Standard length - (125 mm threaded, 105 mm flanged) ● 0 Extended shield - (250 mm threaded, 230 mm flanged) ²⁾ ● 1 Extended shield - (400 mm threaded, 380 mm flanged) ³⁾ ● 2	

1) Barrier or Intrinsically Safe power supply required for Intrinsically Safe protection
 2) Available with Probe version options B ... D, F, G only [≥ 500 mm (19.69 inch)]
 3) Available with Probe version options C, D, and, G only [≥ 750 mm (29.53 inch)]
 ● We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ●. For details see page 9/5 in the appendix.

Level Measurement

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Pointek CLS300 – Digital

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Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs		Pointek CLS300 - Digital - Cable with Threaded or Flanged process connection	7ML5661-
Please add "-Z" to Article No. and specify Order code(s).		Versatile inverse frequency shift capacitance level switch with optional process connection choices and configurable output, ideal for detection of liquids, solids, slurries, foam, and interfaces	
Total insertion length: enter the total insertion length in plain text description	Y01	Process connection	
Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15	<u>Threaded, 316L stainless steel</u>	
Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	C11	1 1/4" NPT [(Taper), ANSI/ASME B1.20.1]	0 C
Inspection Certificate Type 3.1 per EN 10204	C12	1 1/2" NPT [(Taper), ANSI/ASME B1.20.1]	0 D
		R 1 1/2" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 D
		G 1 1/2" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 D
Operating Instructions	See page 4/59	<u>Welded flange, 316L stainless steel, raised face</u>	
Note: The Operating Instructions should be ordered as a separate line on the order. This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and manual library.		1 1/2" ASME, 150 lb	5 D
		1 1/2" ASME, 300 lb	5 E
		1 1/2" ASME, 600 lb	5 F
		2" ASME, 150 lb	5 G
		2" ASME, 300 lb	5 H
		2" ASME, 600 lb	5 J
Accessories	See page 4/59	3" ASME, 150 lb	5 K
We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix.		3" ASME, 300 lb	5 L
		3" ASME, 600 lb	5 M
		4" ASME, 150 lb	5 N
		4" ASME, 300 lb	5 P
		4" ASME, 600 lb	5 Q
		<u>Welded flange, 316L stainless steel, Type A flat faced</u>	
		DN 40, PN 16	6 C
		DN 40, PN 40	6 D
		DN 50, PN 16	6 E
		DN 50, PN 40	6 F
		DN 80, PN 16	6 G
		DN 80, PN 40	6 H
		DN 100, PN 16	6 J
		DN 100, PN 40	6 K
		(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)	
		Probe length (length from flange face) (threaded lengths include process thread)	
		<u>Note: No Y01 needed in Order code for standard lengths</u>	
		Extended cable, 3 000 mm (118.11 inch), length can be shortened by customer	A
		Extended cable, 6 000 mm (236.22 inch), length can be shortened by customer	B
		<u>Add Order code Y01 and plain text: "Insertion length ... mm"</u>	
		Extended cable, 500 ... 1 000 mm (19.69 ... 39.37 inch)	E
		Extended cable, 1 001 ... 5 000 mm (39.41 ... 196.85 inch)	F
		Extended cable, 5 001 ... 10 000 mm (196.89 ... 393.70 inch)	G
		Extended cable, 10 001 ... 15 000 mm (393.74 ... 590.55 inch)	H
		Extended cable, 15 001 ... 20 000 mm (590.59 ... 787.40 inch)	J
		Extended cable, 20 001 ... 25 000 mm (787.44 ... 984.25 inch)	K

Level Measurement

Point level measurement – Capacitance switches

Pointek CLS300 – Digital

Selection and Ordering data	Article No.
Pointek CLS300 - Digital - High Temperature Rod version with Threaded or Flanged process connection	7ML5662-
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.	0 -
Process connection	
<u>Threaded, 316L stainless steel</u>	
¾" NPT [(Taper), ANSI/ASME B1.20.1]	0 A
1" NPT [(Taper), ANSI/ASME B1.20.1]	0 B
1¼" NPT [(Taper), ANSI/ASME B1.20.1]	0 C
1½" NPT [(Taper), ANSI/ASME B1.20.1]	0 D
R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 A
R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 B
R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	1 D
G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 A
G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 B
G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	3 D
<u>Welded flange, 316L stainless steel, raised face</u>	
1" ASME, 150 lb	5 A
1" ASME, 300 lb	5 B
1" ASME, 600 lb	5 C
1½" ASME, 150 lb	5 D
1½" ASME, 300 lb	5 E
1½" ASME, 600 lb	5 F
2" ASME, 150 lb	5 G
2" ASME, 300 lb	5 H
2" ASME, 600 lb	5 J
3" ASME, 150 lb	5 K
3" ASME, 300 lb	5 L
3" ASME, 600 lb	5 M
4" ASME, 150 lb	5 N
4" ASME, 300 lb	5 P
4" ASME, 600 lb	5 Q
<u>Welded flange, 316L stainless steel, Type A flat faced</u>	
DN 25, PN 16	6 A
DN 25, PN 40	6 B
DN 40, PN 16	6 C
DN 40, PN 40	6 D
DN 50, PN 16	6 E
DN 50, PN 40	6 F
DN 80, PN 16	6 G
DN 80, PN 40	6 H
DN 100, PN 16	6 J
DN 100, PN 40	6 K
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)	
Probe length (length from flange face) (threaded lengths include process thread)	
<u>Note: No Y01 needed in Order code for standard lengths</u>	
Standard version, rod 350 mm (13.78 inch)	A
Extended rod, length 500 mm (19.69 inch)	B
Extended rod, length 750 mm (29.53 inch)	C
Extended rod, length 1 000 mm (39.37 inch)	D
<u>Add Order code Y01 and plain text: "Insertion length ... mm"</u>	
Extended rod, factory adjusted length 250 ... 499 mm (9.8 ... 19.65 inch)	E
Extended rod, factory adjusted length 500 ... 749 mm (19.69 ... 29.49 inch)	F

Selection and Ordering data	Article No.
Pointek CLS300 - Digital - High Temperature Rod version with Threaded or Flanged process connection	7ML5662-
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.	0 -
Extended rod, factory adjusted length 750 ... 999 mm (29.53 ... 39.3 inch)	G
Wetted seals	
Graphite	0
Probe material	
316L stainless steel with ceramic (ZrO ₂) isolators	0
Approvals	
Dust Ignition Proof: CE, C-TICK, ATEX II 1/2 D, 2 D IP6X T100 °C	B
Intrinsically Safe ¹⁾ CE, C-TICK, ATEX II 1 G EEx ia IIC T6...T4, ATEX II 1/2 D, 2 D IP6X T100 °C	C
Flameproof Enclosure with IS Probe: CE, C-TICK, ATEX II 1/2 G EEx d[ia] IIC T6...T4, ATEX II 1/2 D T100 °C	D
Intrinsically Safe ¹⁾ CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4	F
Explosion Proof Enclosure with IS Probe: CSA/FM Class I, Div. 1, Groups A, B, C, D CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4	G
General Purpose (CSA, FM)	H
General Purpose (CSA, FM, CE, C-TICK)	J
Enclosure and Lid	
<u>Aluminum epoxy coated</u>	
2 x ½" NPT via adapter - cable inlet, IP65	A
2 x M20x1.5 cable inlet, IP65	B
2 x ½" NPT via adapter - cable inlet, IP68	C
2 x M20x1.5 cable inlet, IP68	D
Active shield length	
Standard length - (125 mm threaded, 105 mm flanged)	0
Extended shield - (250 mm threaded, 230 mm flanged) ²⁾	1
Extended shield - (400 mm threaded, 380 mm flanged) ³⁾	2
¹⁾ Barrier or Intrinsically Safe power supply required for Intrinsically Safe protection	
²⁾ Available with Probe version options B ... D, F, G only [≥ 500 mm (19.69 inch)]	
³⁾ Available with Probe version options C, D, and, G only [≥ 750 mm (29.53 inch)]	
• We can offer shorter delivery times for configurations designated with the Quick Snip Symbol •. For details see page 9/5 in the appendix.	

Level Measurement

Point level measurement – Capacitance switches

Pointek CLS300 – Standard and Digital

Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs		Operating Instructions - Standard	
Please add "-Z" to Article No. and specify Order code(s).		English	7ML1998-5JH04
Total insertion length: enter the total insertion length in plain text description	◆ Y01	German	7ML1998-5JH34
Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	◆ Y15	Note: The Operating Instructions should be ordered as a separate line on the order.	
Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	◆ C11	Quick Start manual, multi-language	A5E32221251
Inspection Certificate Type 3.1 per EN 10204	◆ C12	This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.	
Operating Instructions		Operating Instructions - Digital	
Note: The Operating Instructions should be ordered as a separate line on the order. This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and manual library.	See page 4/59	English	7ML1998-5JJ05
Accessories		French	7ML1998-5JJ11
◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.	See page 4/59	German	7ML1998-5JJ34
		Note: The Operating Instructions should be ordered as a separate line on the order.	
		Quick Start manual, multi-language	A5E32221496
		This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.	
		Accessories	
		One metallic cable gland M20x1.5, -40 ... +80 °C (-40 ... +176 °F) with integrated shield connection (available for PROFIBUS PA)	7ML1930-1AQ
		<u>General Purpose</u>	
		1/2" NPT General Purpose Cable Entry IP68/IP69K NEMA6, -40 ... -100 °C (-40 ... -212 °F), cable size 6 ... 12 mm (0.236 ... 0.472 inch)	7ML1830-1JA
		M20x1.5 General Purpose Cable Entry IP68/IP69K NEMA6, -40 ... -100 °C (-40 ... -212 °F), cable size 7 ... 12 mm (0.275 ... 0.472 inch)	7ML1830-1JC
		<u>Hazardous Locations</u>	
		1/2" NPT EMC rated Cable Gland: Dust Ignition Proof, Flameproof Exd, and Increased Safety ATEX II 2 GD ExtD A21 (Zone 1, Zone 2, Zone 21, Zone 22, and in Gas Groups IIA, IIB and IIC) -60 ... +80 °C IP66, IP67, IP68, NEMA4X, cable sizes 5.5 ... 12 mm (0.216 ... 0.472 inch)	7ML1830-1JB
		M20 EMC rated Cable Gland: Dust Ignition Proof, Flameproof Exd, and Increased Safety ATEX II 2 GD ExtD A21 (Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC) -60 ... +80 °C IP66, IP67, IP68, NEMA4X, cable sizes 5.5 ... 12 mm (0.216 ... 0.472 inch)	7ML1830-1JD
		Blind threaded flanges are available. Please contact ceg.smp@siemens.com with a completed application data sheet on page 4/11	
		Pointek Specials	See page 4/82