Selection and Ordering data		Article No.	Selection and Ordering data	Arti	cle N	0.
Pointek CLS300 - Standard - Rod Version		7ML5650-	Pointek CLS300 - Standard - Rod Version	7M	L5650	)-
with Threaded or Flanged process connection Inverse frequency shift capacitance level and material detection switch with optional rod/cable choices and configurable output. CLS300 is ideal for detecting liquids, solids, slurries, foam, and interfaces in demanding conditions where high pressure and temperatures are present, and has the ability to tune out buildup on the probe.			with Threaded or Flanged process connection Inverse frequency shift capacitance level and material detection switch with optional rod/cable choices and configurable output. CLS300 is ideal for detecting liquids, solids, slurries, foam, and interfaces in demanding conditions where high pressure and temperatures are present, and has the ability to tune out buildup on the probe.	••		
Click on the Article No. for the online configura- tion in the PIA Life Cycle Portal.			Add Order code Y01 and plain text: "Insertion length mm"			
Process connection Threaded, 316L stainless steel			Extended rod, factory adjusted length 250 499 mm (9.8 19.65 inch) Extended rod, factory adjusted length	•	E F	
%" NPT [(Taper), ANSI/ASME B1.20.1] 1" NPT [(Taper), ANSI/ASME B1.20.1] 1¼" NPT [(Taper), ANSI/ASME B1.20.1]	•	0 A 0 B 0 C	Extended 100, factory adjusted length 500 749 mm (19.69 29.49 inch) Extended rod, factory adjusted length 750 999 mm (29.53 39.3 inch)	•	G	Ш
1½" NPT [(Taper), ANSI/ASME B1.20.1] R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203] R 1½" [(BSPT), EN 10226/PT (JIS-T),	•	0 D 1 A 1 B 1 D	Thermal isolator Without thermal isolator With thermal isolator [for process connection temperatures over 85 °C (185 °F)]	•	0	Ш
JIS B 0203]			Wetted seals			
G 3/4" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202] G 1" [(BSPP), EN ISO 228-1/PF (JIS-P),		3 A 3 B	FKM FFKM [for process temperatures above -20 °C (-4 °F)]	•	0 1	
JIS B 0202] G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]	•	3 D	Probe material 316L stainless steel with PFA lining and PEEK isolators	•		0
Welded flange, 316L stainless steel, raised face		5 A	Approvals			
1" ASME, 150 lb 1" ASME, 300 lb	•	5 A 5 B	Dust Ignition Proof with IS Probe: CE, RCM, ATEX II 1/2 D T100 °C	•		С
1" ASME, 600 lb 1½" ASME, 150 lb 1½" ASME, 300 lb	•	5 C 5 D 5 E	Flameproof Enclosure with IS Probe: CE, RCM, ATEX II 1/2 G EEx d[ia] IIC T6 T1, ATEX II 1/2 D T100 °C			D E
1½" ASME, 600 lb 2" ASME, 150 lb 2" ASME, 300 lb	•	5 F 5 G 5 H	Flameproof Enclosure with IS Probe, with WHG approval: CE, RCM, ATEX II 1/2 G EEx d[ia] IIC T6 T1, ATEX II 1/2 D T100 °C			
2" ASME, 600 lb 3" ASME, 150 lb 3" ASME, 300 lb	•	5 J 5 K 5 L	Dust Ignition Proof with IS Probe: CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4	•		F
3" ASME, 600 lb 4" ASME, 150 lb 4" ASME, 300 lb 4" ASME, 600 lb	•	5 M 5 N 5 P 5 Q	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
Welded flange, 316L stainless steel,	$\exists$		General Purpose (CSA, FM)	•		Н
Type A flat faced DN 25, PN 16		6 A	General Purpose (CE, RCM)	•		J
DN 25, PN 40 DN 40, PN 16		6 B 6 C	General Purpose with WHG approval (CSA, FM, CE, RCM)	•		K
DN 40, PN 40 DN 50, PN 16 DN 50, PN 40	•	6 D 6 E 6 F	Enclosure and lid  Aluminum epoxy coated  2 x ½" NPT via adapter - cable inlet, IP65  2 x M20 x 1.5 cable inlet, IP65	•		A B
DN 80, PN 16 DN 80, PN 40	٠	6 G 6 H	2 x 1/2" NPT via adapter - cable inlet, IP68 2 x M20 x 1.5 cable inlet, IP68			C
DN 100, PN 16 DN 100, PN 40 (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)	•	6 J 6 K	Active shield length Standard length - (125 mm threaded, 105 mm flanged) Extended shield - (250 mm threaded, 230 mm flanged) <sup>1)</sup> Extended shield - (400 mm threaded, 380 mm flanged) <sup>2)</sup>	•		0 1 2
Note: No Y01 needed in Order code for standard lengths  Standard version, rod 350 mm (13.78 inch) Extended rod, length 500 mm (19.69 inch) Extended rod, length 750 mm (29.53 inch) Extended rod, length 1 000 mm (39.37 inch)	• • • •	A B C D	1) Available with Probe version options B D, F, G on [≥ 500 mm (19.69 inch)] 2) Available with Probe version options C, D, and G on [≥ 750 mm (29.53 inch)]   ■ We can offer shorter delivery times for configuration Quick Ship Symbol ■. For details see page 9/5 in the	lly s desia	nated	with the

Order code
Y01
Y15
C11
C12
See page 4/56
See page 4/56
e

Quick Ship Symbol . For details see page 9/5 in the appendix.

Selection and Ordering data		Article No.
Pointek CLS300 - Standard - Cable Version with Threaded or Flanged process connection		7ML5651-
Inverse frequency shift capacitance level and material detection switch with optional rod/cable choices and configurable output. CLS300 is ideal for detecting liquids, solids, slurries, foam, and interfaces in demanding conditions where high pressure and temperatures are present, and has the ability to tune out buildup on the probe.  7 Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Process connection		
Threaded, 316L stainless steel  11/4" NPT [(Taper), ANSI/ASME B1.20.1]  11/2" NPT [(Taper), ANSI/ASME B1.20.1]  R 11/2" [(BSPT), EN 10226/PT (JIS-T),  JIS B 0203]  G 11/2" [(BSPP), EN ISO 228-1/PF (JIS-P),	• • • •	0 C 0 D 1 D
US B 0202] Welded flange, 316L stainless steel, raised face		
1½" ASME, 150 lb 1½" ASME, 300 lb 1½" ASME, 600 lb	•	5 D 5 E 5 F
2" ASME, 150 lb 2" ASME, 300 lb 2" ASME, 600 lb	•	5 G 5 H 5 J
3" ASME, 150 lb 3" ASME, 300 lb 3" ASME, 600 lb 4" ASME, 150 lb	•	5 K 5 L 5 M
4" ASME, 300 lb 4" ASME, 600 lb Welded flange, 316L stainless steel,		5 P 5 Q
Type A flat faced DN 40, PN 16	•	6 C
DN 40, PN 40 DN 50, PN 16	•	6 D 6 E
DN 50, PN 40 DN 80, PN 16 DN 80, PN 40	•	6 F 6 G 6 H
DN 100, PN 16 DN 100, PN 40 (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)	•	6 J 6 K
Probe length (length from flange face) (threaded lengths include process thread)		
Note: No Y01 needed in Order code for standard lengths		
Extended cable, 3 000 mm (118.11 inch), length can be shortened by customer Extended cable, 6 000 mm (236.22 inch),	•	A B
length can be shortened by customer  Add Order code Y01 and plain text: "Insertion length mm"		
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) Extended cable, 15 001 20 000 mm	•	H J
(590.59 787.40 inch) Extended cable, 20 001 25 000 mm (787.44 984.25 inch)	•	к

Selection and Ordering data		Articl	e N	0.		
Pointek CLS300 - Standard - Cable Version		7ML5				
with Threaded or Flanged process connection Inverse frequency shift capacitance level and material detection switch with optional rod/cable choices and configurable output. CLS300 is ideal for detecting liquids, solids, slurries, foam, and interfaces in demanding conditions where high pressure and temperatures are present, and has the ability to tune out buildup on the probe.						
Thermal isolator Without thermal isolator			0			
With thermal isolator [for process connection temperatures over 85 °C (185 °F)]	•		1			
Wetted seals			_			
FKM FFKM [for process temperatures above -20 °C (-4 °F)]	•		1			
Probe material	1					
Bare 316L stainless steel cable, PEEK isolators and 316L stainless steel cable weight	_					
PFA coated cable, PEEK isolators and 316L stainless steel cable weight				1		
Approvals					П	
Dust Ignition Proof with IS Probe: CE, RCM, ATEX II 1/2 D T100 °C	•				С	
Flameproof Enclosure with IS Probe: CE, RCM, 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, RCM, 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)	•				Н	
General Purpose (CE, RCM)					J	
General Purpose with WHG approval (CSA, FM, CE, RCM)					K	
Enclosure and lid Aluminum epoxy coated						
2 x ½" NPT via adapter - cable inlet, IP65	•				-	4
2 x M20 x 1.5 cable inlet, IP65 2 x ½" NPT via adapter - cable inlet, IP68	•					3
2 x M20 x 1.5 cable inlet, IP68	•					5
Active shield length						_
Standard length - (125 mm threaded, 105 mm flanged)						0
Extended shield - (250 mm threaded, 230 mm flanged) <sup>1)</sup>						1
Extended shield - (400 mm threaded, 380 mm flanged) <sup>1)</sup>	•					2

- $^{1)}$  Available with Probe version options A, B, F ... K, only  $[\geq 1\ 000\ \text{mm}\ (39.7\ \text{inch})]$
- 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 Level and Weighing manual DVD containing the ATEX Quick Start and manual library.	See page 4/56
Accessories	See page 4/56

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 For details see page 9/5 in the appendix.

Selection and Ordering data	Article No.			Selection and Ordering data	Article No.			No.		_	
Pointek CLS300 - Standard - High Temperature	7M	IL5652-			Pointek CLS300 - Standard - High Temperature	7ML5652-					
Rod Version with Threaded or Flanged process connection		0			Rod Version with Threaded or Flanged process connection			0			1
Inverse frequency shift capacitance level and material detection switch with optional rod/cable choices and configurable output. CLS300 is ideal for detecting liquids, solids, slurries, foam, and interfaces in demanding conditions where high pressure and temperatures are present, and has the ability to tune out buildup on the probe.					Inverse frequency shift capacitance level and material detection switch with optional rod/cable choices and configurable output. CLS300 is ideal for detecting liquids, solids, slurries, foam, and interfaces in demanding conditions where high pressure and temperatures are present, and has the ability to tune out buildup on the probe.						
∠ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.				1	Add Order code Y01 and plain text: "Insertion length mm"			_			
Process connection Threaded, 316L stainless steel					Extended rod, factory adjusted length 250 499 mm (9.8 19.65 inch)			E			
3/4" NPT [(Taper), ANSI/ASME B1.20.1] 1" NPT [(Taper), ANSI/ASME B1.20.1]	0 A 0 E 0 C	3	Ш		Extended rod, factory adjusted length 500 749 mm (19.69 29.49 inch) Extended rod, factory adjusted length 750 999 mm (29.53 39.3 inch)	•		F G			
R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	0 D 1 A 1 B	١			Wetted seals Graphite Probe material	•			0		
R 11/2" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]	• 1 D	)	П	;	316L stainless steel with ceramic (ZrO <sub>2</sub> ) isolators	٠			0		
JIS B 0202]	3 A		П		Approvals  Dust Ignition Proof with IS Probe:	٠				С	
JIS B 0202] G 11/2" [(BSPP), EN ISO 228-1/PF (JIS-P),	3 0		П		CE, RCM, ATEX II 1/2 D T100 °C Flameproof Enclosure with IS Probe: CE, RCM, ATEX II 1/2 G EEx d[ia] IIC T6 T1,	٠				D	
Welded flange, 316L stainless steel, raised face	_		П		ATEXII 1/2 D T100 °C Flameproof Enclosure with IS Probe, with WHG approval:	•				E	
1" ASME, 150 lb 1" ASME, 300 lb 1" ASME, 600 lb	5 A 5 B 5 C	3	П		CE, RCM, ATEX II 1/2 G EEx d[ia] IIC T6 T1, ATEX II 1/2 D T100 °C						
	5 D		П		Dust Ignition Proof with IS Probe: CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4					F	
- ,	5 F	à	П		Explosion Proof Enclosure with IS Probe: CSA/FM Class I, Div. 1, Groups A, B, C, D	•				G	
2" ASME, 300 lb 2" ASME, 600 lb	5 H 5 J	1	П		CSA/FM Class II, Div. 1, Groups E, F, G CSA/FM Class III T4 General Purpose (CSA, FM)					н	
3" ASME, 150 lb 3" ASME, 300 lb 3" ASME, 600 lb	5 K 5 L 5 N		П		General Purpose (CE, RCM)	•				J	
	5 N 5 P	ı	П	-	General Purpose with WHG approval (CSA, FM, CE, RCM)	•				K	
4* ASME, 600 lb  Welded flange, 316L stainless steel, Type A flat faced	5 G		Ш	:	Enclosure and lid  Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP65 2 x M20 x 1.5 cable inlet, IP65	•				A B	
DN 25, PN 40	6 A 6 B	3	П		2 x ½" NPT via adapter - cable inlet, IP68 2 x M20 x 1.5 cable inlet, IP68	•				C	
DN 40, PN 16 DN 40, PN 40	6 C				Active shield length Standard length -	•				0	
DN 50, PN 16	● 6 E				(125 mm threaded, 105 mm flanged)						
DN 50, PN 40 DN 80, PN 16	6 F				Extended shield - (250 mm threaded, 230 mm flanged) <sup>1)</sup>	•				1	
DN 80, PN 40	6 H	1			Extended shield - (400 mm threaded, 380 mm flanged) <sup>2)</sup>	•				2	!
	6 J				1) Available with Probe version options B D, F, G or	slv.					
DN 100, PN 40 (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)	6 K		Ш		[≥ 500 mm (19.69 inch)]  Available with Probe version options C, D, and G o [≥ 750 mm (29.53 inch)]	-					
Probe length (length from flange face) (threaded lengths include process thread)			П		<ul> <li>We can offer shorter delivery times for configuration Quick Ship Symbol</li> <li>For details see page 9/5 in the shorter of the shorter of</li></ul>					th the	ļ
Note: No Y01 needed in Order code for standard lengths											
Extended rod, length 500 mm (19.69 inch) Extended rod, length 750 mm (29.53 inch)		A B C D									

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 Level and Weighing manual DVD containing the ATEX Quick Start and manual library.	See page 4/56
Accessories	See page 4/56

 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	Article No.
Operating Instructions - Standard	
English	7ML1998-5JH04
German	7ML1998-5JH34
Note: The Operating Instructions should be ordered as a separate line on the order.	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Quick Start and Operating Instructions library.	
Operating Instructions - Digital	
English	7ML1998-5JJ05
German	7ML1998-5JJ34
Note: The Operating Instructions should be ordered as a separate line on the order.	
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Quick Start and Operating Instructions library.	
Accessories	
One metallic cable gland M20 x 1.5, -40 +80 °C (-40 +176 °F) with integrated shield connection (available for PROFIBUS PA)	7ML1930-1AQ
General Purpose	
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
M20 x 1.5 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
Hazardous Locations	
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. Customers interested in a custom designed device	
should consult a local sales person. For more information, please visit	
http://www.automation.siemens.com/aspa_app.	
Pointek Specials	See page 4/79