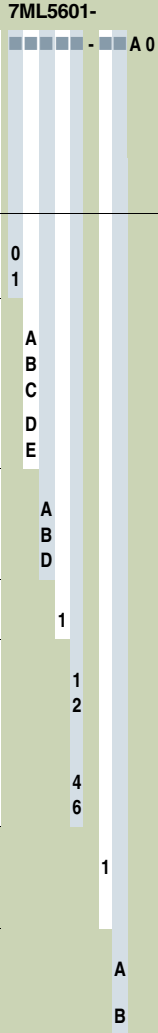


Selection and Ordering data		Article No.	Selection and Ordering data		Order code
Pointek CLS500, threaded Inverse frequency shift capacitance level and material detection switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure. CLS500 also has the ability to tune out buildup on the probe.		7ML5601- 	Further designs Please add "-Z" to Article No. and specify Order code(s).		
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			Total insertion length: enter the total insertion length in plain text description		Y01
Electronic transmitter No transmitter supplied MSP 2002-1 (330 pF)			Note: The difference between Y01 and Y02 must be a minimum of 150 mm Active Shield length - minimum length is 50 mm Y02: to mm ¹⁾		Y02
Process connection ¾" 1" 1¼" 1½" 2"			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
Threaded connection and rating NPT [(Taper), ANSI/ASME B1.20.1] R [(BSPT), EN 10226/PT (JIS-T) JIS B 0203] G [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]			Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000 Inspection Certificate Type 3.1 per EN 10204		C11 C12
Probe insulation/material of process connection PFA insulation/316L stainless steel			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 4/70
Approvals General Purpose: CE, CSA/FM, RCM CSA/FM Class I, Div. 2, Groups A, B, C, D T4; ATEX II 3GD 2D EEx nA [ib] IIC T6 ... T4 T100 °C; CSA/FM Class II and III Div. 1, Groups E, F, G T4 ATEX II 1/2 GD EEx d [ia] IIC T6 ... T1 T100 °C FM Class I, Div. 1, Groups A, B, C, D T4			Pointek Specials		See page 4/79
Probe/electrode diameter 16 mm (0.63 inch) rigid rod, minimum insertion length 200 mm (7.9 inch), maximum insertion length 1 000 mm (39.4 inch) ¹⁾			1) See dimension drawings on page 4/76 for further explanation of Y02		
Thermal isolator/remote version Rigid thermal isolator [for process connection temperature over 85 °C (185 °F)] No thermal isolator					

¹⁾ Add Order code Y01 and Y02 in plain text:
 "Insertion/active shield length to mm"

Selection and Ordering data		Article No.
Pointek CLS500, welded flange Inverse frequency shift capacitance level and material detection switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure. CLS500 also has the ability to tune out buildup on the probe.		7ML5602- 
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Electronic transmitter MSP 2002-1 (330 pF)		1
Process connection and pressure rating <u>Welded flange, 316L stainless steel, raised face</u> 2" ASME, 150 lb 2" ASME, 300 lb 3" ASME, 150 lb 3" ASME, 300 lb ¹⁾ 4" ASME, 150 lb ¹⁾ 4" ASME, 300 lb ¹⁾ 6" ASME, 150 lb ¹⁾ 6" ASME, 300 lb ¹⁾ <u>Welded flange, 316L stainless steel, Type A flat faced</u> DN 50 PN 16 DN 50 PN 40 DN 80 PN 16 DN 80 PN 40 DN 100 PN 16 ¹⁾ DN 125 PN 16 ¹⁾ (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)		AA AB BA BB CA CB DA DB EC ED FC FD GC HC
Probe insulation/material of process connection PFA insulation/316L stainless steel		1
Approvals General Purpose CSA/FM Class I, Div. 2, Groups A, B, C, D T4; ATEX II 3GD 2D EEx nA [ib] IIC T6 ... T4 T100 °C; CSA/FM Class II and III Div. 1, Groups E, F, G T4 ATEX II 1/2 GD EEx d [ia] IIC T6 ... T1 T100 °C FM Class I, Div. 1, Groups A, B, C, D T4		1 2 4 6
Probe/electrode diameter 16 mm (0.63 inch) rigid rod, min. length 200 mm (7.9 inch), max. length 1 000 mm (39.4 inch)		1
Thermal isolator Rigid thermal isolator [for process temperature over 85 °C (185 °F)] No thermal isolator		A B

¹⁾ Custom shipping methods required. Contact factory for more details.

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
Active Shield length - minimum length is 50 mm. Y02: to mm ¹⁾		Y02
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 4/70
Pointek Specials		See page 4/79

¹⁾ See dimensional drawings on page 4/77 for further explanation of Y02

Selection and Ordering data		Article No.	Selection and Ordering data	Order code
Pointek CLS500, single piece flange		7ML5603-		
Inverse frequency shift capacitance level and material detection switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure. CLS500 also 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.				
Electronic transmitter				
MSP 2002-1 (330 pF)		1		
Process connection and pressure rating				
<u>Single piece flange, 316L stainless steel, raised face</u>				
2" ASME, 150 lb		AA		
2" ASME, 300 lb		AB		
3" ASME, 150 lb		BA		
3" ASME, 300 lb ¹⁾		BB		
4" ASME, 150 lb ¹⁾		CA		
4" ASME, 300 lb ¹⁾		CB		
6" ASME, 150 lb ¹⁾		DA		
6" ASME, 300 lb ¹⁾		DB		
<u>Single piece flange, 316L stainless steel, Type B1 raised faced</u>				
DN 50 PN 16		EC		
DN 50 PN 25		ED		
DN 80 PN 16		FC		
DN 80 PN 25		FD		
DN 100 PN 16 ¹⁾		GC		
DN 100 PN 25 ¹⁾		GD		
DN 125 PN 16 ¹⁾		HC		
DN 125 PN 25 ¹⁾		HD		
Probe insulation/material of process connection				
PFA insulation/316L stainless steel		1		
Approvals				
General Purpose: CE, CSA/FM, RCM		1		
CSA/FM Class I, Div. 2, Groups A, B, C, D T4;		2		
ATEX II 3GD 2D EEx nA [ib] IIC T6 ... T4 T100 °C;				
CSA/FM Class II and III Div. 1, Groups E, F, G T4				
ATEX II 1/2 GD EEx d [ia] IIC T6 ... T1 T100 °C		4		
FM Class I, Div. 1, Groups A, B, C, D T4		6		
Probe/electrode diameter				
16 mm (0.63 inch) rigid rod, maximum length 1 000 mm (39.4 inch) (Y01)		1		
Thermal isolator				
Rigid thermal isolator [for process connection temperature over 85 °C (185 °F)]		A		
No thermal isolator		B		
			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
			Active Shield length - minimum length is 50 mm. Y02: to mm ¹⁾	Y02
			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 4/70
			Accessories	See page 4/79

¹⁾ See dimensional drawings on page 4/77 for further explanation of Y02

¹⁾ Custom shipping methods required. Contact factory for more details

Selection and Ordering data		Article No.	
Pointek CLS500 High temperature Inverse frequency shift capacitance level and material detection switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure. CLS500 also 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.		7ML5604- A -	
Electronic transmitter None ⁵⁾ MSP 2002-1 (330 pF)		01	
Process connection and pressure rating <u>316L stainless steel, raised face¹⁾</u> 2" ASME, 150 lb 2" ASME, 300 lb 2" ASME, 600 lb 2" ASME, 900 lb 3" ASME, 150 lb 3" ASME, 300 lb ²⁾ 3" ASME, 600 lb ²⁾ 3" ASME, 900 lb ²⁾ 4" ASME, 150 lb ²⁾ 4" ASME, 300 lb ²⁾ 4" ASME, 600 lb ²⁾ 4" ASME, 900 lb ²⁾ 6" ASME, 150 lb ²⁾ 6" ASME, 300 lb ²⁾ 6" ASME, 600 lb ²⁾ 6" ASME, 900 lb ²⁾ <u>316L stainless steel, Type B1 flat faced</u> DN 50 PN 16 DN 50 PN 25 DN 50 PN 40 DN 50 PN 63 DN 80 PN 16 DN 80 PN 25 DN 80 PN 40 ²⁾ DN 80 PN 63 ²⁾ DN 100 PN 16 ²⁾ DN 100 PN 25 ²⁾ DN 100 PN 40 ²⁾ DN 100 PN 64 ²⁾ DN 125 PN 16 ²⁾ DN 125 PN 25 ²⁾ DN 125 PN 40 ²⁾ DN 125 PN 64 ²⁾ (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)		A 1 A 2 A 3 A 4 B 1 B 2 B 3 B 4 C 1 C 2 C 3 C 4 D 1 D 2 D 3 D 4 E 1 E 2 E 3 E 4 F 1 F 2 F 3 F 4 G 1 G 2 G 3 G 4 H 1 H 2 H 3 H 4	

Selection and Ordering data	Article No.
Pointek CLS500 High temperature Inverse frequency shift capacitance level and material detection switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure. CLS500 also has the ability to tune out buildup on the probe.	7ML5604-
Probe material of process connection No insulation/316L stainless steel ^(3/4)	
Stilling well No stilling well	
Approvals General Purpose CSA/FM Class I, Div. 2, Groups A, B, C, D T4; ATEX II 3GD 2D EEx nA [ib] IIC T6 ... T4 T100 °C; CSA/FM Class II and III Div. 1, Groups E, F, G T4 ATEX II 1/2 GD EEx d [ia] IIC T6 ... T1 T100 °C FM Class I, Div. 1, Groups A, B, C, D T4	
Probe/electrode diameter Maximum length 1 000 mm (39.37 inch) ⁽⁴⁾	
Thermal isolator Rigid thermal isolator [for process connection temperature over 85 °C (185 °F)]	

1) Welded flange for no insulation option only

2) Custom shipping methods required

3) Non-conductive material only, stainless steel non-insulated probe diameter 19 mm (0.75 inch)

4) Add Order code Y01 and Y02 in plain text: "Insertion/active shield length to mm"
 Minimum insertion length depends on probe version selected.
 See dimensional drawings on page 4/76 for more details

5) Only available with Approvals option A

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
Active Shield length - minimum length is 50 mm. Y02: to mm ¹⁾	Y02
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	
English	7ML1998-5GG03
German	7ML1998-5GG32
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	
<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
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
Transmitter, MSP 2002-1, 330 PF	7ML1830-1JP
<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
Pointek Specials	See page 4/79

¹⁾ See dimensional drawings on page 4/77 for further explanation of Y02