

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- A 0	<i>Further designs</i> 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)	0 1	Note: The difference between Y01 and Y02 must be a minimum of 150 mm	
Process connection ¾" 1" 1¼" 1½" 2"	A B C D E	Active Shield length - minimum length is 50 mm Y02: to mm ¹⁾	Y02
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]	A B D	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
Probe insulation/material of process connection PFA insulation/316L stainless steel	1	Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000	C11
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	1 2 4 6	Inspection Certificate Type 3.1 per EN 10204	C12
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 A B	<i>Operating Instructions</i> 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
Thermal isolator/remote version Rigid thermal isolator [for process connection temperature over 85 °C (185 °F)] No thermal isolator		<i>Pointek Specials</i>	See page 4/79

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

Selection and Ordering data	Article No.	Selection and Ordering data	Order code
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-	<i>Further designs</i> 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.	A 0	Total insertion length: enter the total insertion length in plain text description	Y01
Electronic transmitter MSP 2002-1 (330 pF)	1	Active Shield length - minimum length is 50 mm. Y02: to mm ¹⁾	Y02
Process connection and pressure rating Welded flange, 316L stainless steel, raised face	AA AB BA BB CA CB DA DB EC ED FC FD GC HC	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
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⁾ Welded flange, 316L stainless steel, Type A flat faced 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.)	1	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	1	<i>Operating Instructions</i> 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 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 1	Pointek Specials	See page 4/79
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)	A B	¹⁾ See dimensional drawings on page 4/77 for further explanation of Y02	
Thermal isolator Rigid thermal isolator [for process temperature over 85 °C (185 °F)] No thermal isolator			

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

Selection and Ordering data	Article No.	Selection and Ordering data	Order code
Pointek CLS500, single piece 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.	7ML5603- A 0	<i>Further designs</i> 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 MSP 2002-1 (330 pF)	1	Active Shield length - minimum length is 50 mm. Y02: to mm ¹⁾	Y02
Process connection and pressure rating <u>Single piece flange, 316L stainless steel, raised face</u>	A A A B B A B B C A C B D A D B	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
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>Single piece flange, 316L stainless steel, Type B1 raised faced</u>	E C E D F C F D G C G D H C H D	Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000 Inspection Certificate Type 3.1 per EN 10204	C11 C12
DN 50 PN 16 DN 50 PN 25 DN 80 PN 16 DN 80 PN 25 DN 100 PN 16 ¹⁾ DN 100 PN 25 ¹⁾ DN 125 PN 16 ¹⁾ DN 125 PN 25 ¹⁾	1	<i>Operating Instructions</i> 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
Probe insulation/material of process connection PFA insulation/316L stainless steel	1 2 4 6	<i>Accessories</i>	See page 4/79
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	1 2 A B		
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)] No thermal isolator			

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

Selection and Ordering data	Article No.	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-	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-
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			
Electronic transmitter None ⁵⁾ MSP 2002-1 (330 pF)	0 1		1 0 A B D F A 1
Process connection and pressure rating <u>316L stainless steel, raised face¹⁾</u>	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	Probe material of process connection No insulation/316L stainless steel ^{[3]4)}	1 0 A B D F A 1
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>		Stilling well No stilling well	
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.)		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	Article No.
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 Exd 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 Exd 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