

Selection and Ordering data	Article No.
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 build-up on the probe.	
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	
Electronic transmitter No transmitter supplied MSP 2002-1 (330 pF)	
Process connection ¾" 1" 1¼" 1½" 2"	
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]	
Probe insulation/material of process connection PFA insulation/316L stainless steel	1
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 to 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 to 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, minimum insertion length 200 mm (7.9 inch), maximum insertion length 1 000 mm (39.4 inch) ¹⁾	1
Thermal isolator/remote version Rigid thermal isolator [for process connection temperature over 85 °C (185 °F)] No thermal isolator	A B

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

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 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⁾ Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000 Inspection Certificate Type 3.1 per EN 10204	Y01 Y02 Y15 C11 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 4/71
Pointek Specials	See page 4/80

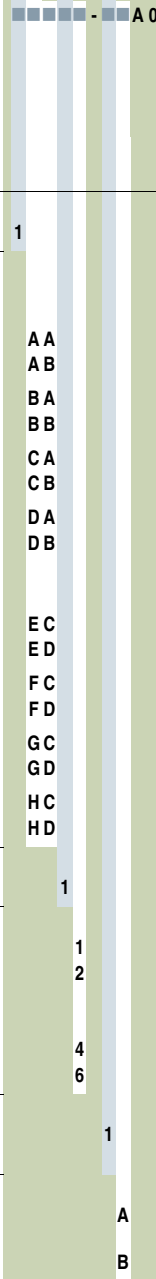
¹⁾ See dimension drawings on page 4/77 for further explanation of Y02

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 build-up 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>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.)	A A A B B A B B C A C B D A D B E C E D F C F D G C H C	
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 to 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 to 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 Milltronics manual DVD containing the ATEX Quick Start and manual library.	See page 4/71
Pointek Specials	See page 4/80

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

Selection and Ordering data	Article No.	
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 build-up on the probe.		
 Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Electronic transmitter	1	
MSP 2002-1 (330 pF)		
Process connection and pressure rating		
Single piece flange, 316L stainless steel, raised face		
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	
Single piece flange, 316L stainless steel, Type B1 raised faced		
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; ATEX II 3GD 2D EEx nA [ib] IIC T6 to T4 T100 °C; CSA/FM Class II and III Div. 1, Groups E, F, G T4	2	
ATEX II 1/2 GD EEx d [ia] IIC T6 to 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	

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 Milltronics manual DVD containing the ATEX Quick Start and manual library.	See page 4/71
Accessories	See page 4/80

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

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 build-up on the probe. Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	7ML5604-
Electronic transmitter MSP 2002-1 (330 pF)	1
Process connection and pressure rating 316L stainless steel, raised face 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⁾ 316L stainless steel, Type B1 flat faced 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 build-up on the probe.	7ML5604-
Probe material of process connection No insulation/316L stainless steel ³⁾⁴⁾	1
Stilling well No stilling well	0
Approvals General Purpose CSA/FM Class I, Div. 2, Groups A, B, C, D T4; ATEX II 3GD 2D EEx nA [ib] IIC T6 to 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 to T1 T100 °C FM Class I, Div. 1, Groups A, B, C, D T4	A B D F
Probe/electrode diameter Maximum length 1 000 mm (39.37 inch) ⁴⁾	A
Thermal isolator Rigid thermal isolator [for process connection temperature over 85 °C (185 °F)]	1

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 4/77 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	
English	7ML1998-5GG03
German	7ML1998-5GG32
French	7ML1998-5GG11
Dutch	7ML1998-5GG41
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 Operating Instructions library.	
Quick Start manual, multi-language	A5E32243995
This device is shipped with the Siemens Milltronics 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
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
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 4/80

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