

Selection and Ordering data		Order No.
Pointek CLS500, threaded		7 ML 5 6 0 1 -
Inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure.		
Electronic transmitter No transmitter supplied MSP 2002-1 (330 pF)		0 1
Process connection ¾" 1" 1¼" 1½" 2"		A B C D E
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
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; ATEX II 1/2 GD EEx d [ia] T6 to T1 CSA/FM Class I, Div. 1, Groups A, B, C, D, T4; ATEX II 1G EEx [ia] IIC T6 to T4 ¹⁾ ATEX II 1/2 GD EEx d [ia] IIC T6 to T1 FM Class I, Div. 1, Groups A, B, C, D, T4		1 2 3 4 6
Probe/electrode diameter 16 mm (0.63") rigid rod, minimum insertion length 200 mm (7.9"), maximum insertion length 1000 mm (39.4") ²⁾		1
Thermal isolator/remote version Rigid thermal isolator [for process temperature over +85 °C (+185 °F)] No thermal isolator		A B
Further designs Please add "-Z" to Order No. and specify Order code(s).		Order code
Insertion length, specify in plain text: Y01: ... mm [minimum 200 mm (7.87")]		Y01
Active Shield length - minimum length is 50 mm. Y02: ... mm		Y02
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text		Y15
Inspection Certificate Type 3.1 per EN 10204		C12
Instruction manual		See page 5/52
Accessories		See page 5/52

¹⁾ Barrier required for Intrinsically Safe protection

²⁾ Add order code Y01 and Y02 in plain text:
"Insertion/active shield length ... mm"

Selection and Ordering data		Order No.
Pointek CLS500, welded flange		7 ML 5 6 0 2 -
Inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure.		
Electronic transmitter No transmitter supplied MSP 2002-1 (330 pF)		0 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 25 DN 80 PN 16 DN 80 PN 25 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 to T4 T100 °C; CSA/FM Class II and III Div. 1, Groups E, F, G; ATEX II 1/2 GD EEx d [ia] T6 to T1 CSA/FM Class I, Div. 1, Groups A, B, C, D, T4; ATEX II 1G EEx [ia] IIC T6 to T4 ²⁾ ATEX II 1/2 GD EEx d [ia] IIC T6 to T1 FM Class I, Div. 1, Groups A, B, C, D, T4		1 2 3 4 6
Probe/electrode diameter 16 mm (0.63") rigid rod, min. length 200 mm (7.9"), max. length 1000 mm (39.4")		1
Thermal isolator/remote version Rigid thermal isolator [for process temperature over +85 °C (+185 °F)] No thermal isolator		A B
Further designs Please add "-Z" to Order No. and specify Order code(s).		Order code
Insertion length, specify in plain text: Y01: ... mm [minimum 200 mm (7.87")]		Y01
Active Shield length - minimum length is 50 mm. Y02: ... mm ³⁾		Y02
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text		Y15
Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000 Inspection Certificate Type 3.1 per EN 10204		C11 C12
Instruction manual		See page 5/52
Accessories		See page 5/52

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

²⁾ Barrier required for Intrinsically Safe protection

³⁾ See dimension drawings on page 5/59 for further explanation of Y02.

Selection and Ordering data		Order No.
Pointek CLS500, single piece flange		7 M L 5 6 0 3 -
Inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure.		A 0
Electronic transmitter		
No transmitter supplied		0
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		A A
2" ASME, 300 lb		A B
3" ASME, 150 lb		B A
3" ASME, 300 lb ¹⁾		B B
4" ASME, 150 lb ¹⁾		C A
4" ASME, 300 lb ¹⁾		C B
6" ASME, 150 lb ¹⁾		D A
6" ASME, 300 lb ¹⁾		D B
<u>Single piece flange, 316L stainless steel, Type B1 raised faced</u>		
DN 50 PN 16		E C
DN 50 PN 25		E D
DN 80 PN 16		F C
DN 80 PN 25		F D
DN 100 PN 16 ¹⁾		G C
DN 100 PN 25 ¹⁾		G D
DN 125 PN 16 ¹⁾		H C
DN 125 PN 25 ¹⁾		H D
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)		
Probe insulation/material of process connection		
PFA insulation/316L stainless steel		1
Approvals		
General Purpose		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; ATEX II 1/2 GD EEx d [ia] T6 to T1		2
CSA/FM Class I, Div. 1, Groups A, B, C, D, T4; ATEX II 1G EEx [ia] IIC T6 to T4 ²⁾		3
ATEX II 1/2 GD EEx d [ia] IIC T6 to T1		4
FM Class I, Div. 1, Groups A, B, C, D, T4		6
Probe/electrode diameter		
16 mm (0.63") rigid rod, maximum length 1000 mm (39.4") (Y01)		1
Thermal isolator/remote version		
Rigid thermal isolator [for process temperature over +85 °C (+185 °F)]		A
No thermal isolator		B

Selection and Ordering data		Order No.
Pointek CLS500, single piece flange		7 M L 5 6 0 3 -
Inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure.		A 0
Further designs		Order code
Please add "-Z" to Order No. and specify Order code(s).		
Insertion length, specify in plain text: Y01: ... mm [minimum 200 mm (7.87")]		Y01
Active Shield length - minimum length is 50 mm. Y02: ... mm ³⁾		Y02
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text		Y15
Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000		C11
Inspection Certificate Type 3.1 per EN 10204		C12
Instruction manual		See page 5/52
Accessories		See page 5/52

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

²⁾ Barrier required for Intrinsically Safe protection

³⁾ See dimension drawings on page 5/59 for further explanation of Y02.

Selection and Ordering data		Order No.
Pointek CLS500 High temperature, single piece flange	7 ML 5 6 0 4 -	
Inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure.	A	
Electronic transmitter		
No transmitter supplied	0	
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	A 1	
2" ASME, 300 lb	A 2	
2" ASME, 600 lb	A 3	
2" ASME, 900 lb	A 4	
3" ASME, 150 lb	B 1	
3" ASME, 300 lb ¹⁾	B 2	
3" ASME, 600 lb ¹⁾	B 3	
3" ASME, 900 lb ¹⁾	B 4	
4" ASME, 150 lb ¹⁾	C 1	
4" ASME, 300 lb ¹⁾	C 2	
4" ASME, 600 lb ¹⁾	C 3	
4" ASME, 900 lb ¹⁾	C 4	
6" ASME, 150 lb ¹⁾	D 1	
6" ASME, 300 lb ¹⁾	D 2	
6" ASME, 600 lb ¹⁾	D 3	
6" ASME, 900 lb ¹⁾	D 4	
<u>Single piece flange, 316L stainless steel, Type B1 raised face</u>		
DN 50 PN 16	E 1	
DN 50 PN 25	E 2	
DN 50 PN 40	E 3	
DN 50 PN 63	E 4	
DN 80 PN 16	F 1	
DN 80 PN 25	F 2	
DN 80 PN 40 ¹⁾	F 3	
DN 80 PN 63 ¹⁾	F 4	
DN 100 PN 16 ¹⁾	G 1	
DN 100 PN 25 ¹⁾	G 2	
DN 100 PN 40 ¹⁾	G 3	
DN 100 PN 63 ¹⁾	G 4	
DN 125 PN 16 ¹⁾	H 1	
DN 125 PN 25 ¹⁾	H 2	
DN 125 PN 40 ¹⁾	H 3	
DN 125 PN 63 ¹⁾	H 4	
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.)		
Probe insulation/material of process connection		
No insulation/316L stainless steel ²⁾ and 5)	1	
Enamel insulation/316L stainless steel ³⁾ and 5)	2	
Stilling well		
No stilling well	0	

Selection and Ordering data		Order No.
Pointek CLS500 High temperature, single piece flange	7 ML 5 6 0 4 -	
Inverse frequency shift capacitance level switch for detecting interfaces, solids, liquids, toxic and aggressive chemicals in critical conditions of extreme temperature and pressure.	A	
Approvals		
General Purpose		A
CSA/FM Class I, Div. 2, Groups A, B, C, D T4;		B
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;		C
ATEX II 1/2 GD EEx d [ia] T6 to T1		
CSA/FM Class I, Div. 1, Groups A, B, C, D, T4;		D
ATEX II 1G EEx [ia] IIC T6 to T4 ⁴⁾		F
ATEX II 1/2 GD EEx d [ia] IIC T6 to T1		
FM Class I, Div. 1, Groups A, B, C, D, T4		
Probe/electrode diameter		
Maximum length 1000 mm (39.37") ⁵⁾		A
Thermal isolator/remote version		
Rigid thermal isolator [for process temperature over +85 °C (+185 °F)]		1
Further designs	Order code	
Please add "-Z" to Order No. and specify Order code(s).		
Insertion length, specify in plain text: Y01: ... mm	Y01	
Y01 for probe insulation option 1: min. = 200 mm (7.87")		
Y01 for probe insulation option 2: min. = 200 mm (7.87")		
Active Shield length, specify in plain text: Y02: ... mm	Y02	
Y02 for probe insulation option 1: min. = 105 mm (4.13")		
Y02 for probe insulation option 2: min. = 100 mm (3.94")		
Stainless steel tag [69 x 38 mm (2.7 x 1.5")]: Measuring-point number/identification (max. 20 characters); specify in plain text	Y15	
Acceptance test certificate: Manufacturer's test certificate M to DIN 55350, Part 18 and ISO 9000 Inspection Certificate Type 3.1 per EN 10204	C11	
	C12	
Instruction manual	See page 5/52	
Accessories	See page 5/52	

- 1) Custom shipping methods required. Contact factory for more details.
- 2) Non-conductive material only, stainless steel non-insulated probe diameter 19 mm (0.75")
- 3) Enamel insulated probe diameter 16 mm (0.63")
- 4) Barrier required for Intrinsically Safe protection
- 5) Add order code Y01 and Y02 in plain text: "Insertion/active shield length ... mm"
Minimum insertion length depends on probe version selected. See dimension drawings on page 5/59 for more details.

Selection and Ordering data		Order No.
Instruction manual		
English		7ML1998-5GG01
German		7ML1998-5GG31
French		7ML1998-5GG11
Dutch		7ML1998-5GG41
Note: The instruction manual should be ordered as a separate line on the order.		
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		
Transmitter, MSP 2002-1, 330 PF	E)	7ML1830-1JP

E) Subject to export regulations AL: N, ECCN: 3A991