Selection and Ordering data		Order No.
Echomax® XPS-10 ultrasonic transducer	C)	**7ML1115 -**
High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. Measuring range: min. 0.3 m, max.10 m		**0**
Mounting thread and facing		
1" NPT [(Taper), ANSI/ASME B1.20.1]		**0**
1" NPT [(Taper), ANSI/ASME B1.20.1] with foam facing[1)]		**1**
1" NPT [(Taper), ANSI/ASME B1.20.1] with PTFE facing[2)]		**2**
R 1" [(BSPT), EN 10226]		**3**
R 1" [(BSPT), EN 10226] with foam facing[1)]		**4**
R 1" [(BSPT), EN 10226] with PTFE facing[2)]		**5**
Cable length		
5 m (16.40 ft)		**B**
10 m (32.81 ft)		**C**
30 m (98.43 ft)		**E**
50 m (164.04 ft)		**F**
100 m (328.08 ft)		**K**
Mounting flange		
None		**A**
3" ASME, 150 lb, flat faced		**C**
4" ASME, 150 lb, flat faced		**D**
6" ASME, 150 lb, flat faced		**E**
8" ASME, 150 lb, flat faced		**F**
DN 80, PN 10/16, Type A, flat faced		**G**
DN 100, PN 10/16, Type A, flat faced		**J**
DN 150, PN 10/16, Type A, flat faced		**L**
JIS10K3B Style		**M**
JIS10K4B Style		**P**
JIS10K6B Style (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1, or JIS B 2238 standard.)		**R**
Approvals		
ATEX II 2 GD, FM Class I Div. 2, SAA Class I		**3**
CSA Class I Div. 1[3)]		**4**
Further designs		Order code
Please add "**-Z**" to Order No. and specify Order code(s).		
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters) specify in plain text		**Y15**

Selection and Ordering data		Order No.
Echomax® XPS-10 ultrasonic transducer	C)	**7ML1115 -**
High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. Measuring range: min. 0.3 m, max.10 m		**0**
Instruction Manual		
Quick Start guide, multi-language	C)	**7ML1998-5QM82**
Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.	C)	**7ML1998-5HV61**
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		
Submergence shield kit		**7ML1830-1BH**
Easy Aimer 2, with ¾" x 1" NPT PVC coupling		**7ML1830-1AQ**
Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings		**7ML1830-1AX**
Easy Aimer 304, with stainless steel coupling		**7ML1830-1AU**
Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings		**7ML1830-1GN**
Universal box bracket, mounting kit		**7ML1830-1BK**
Channel bracket, wall mount		**7ML1830-1BL**
Extended channel bracket, wall mount		**7ML1830-1BM**
Channel bracket, floor mount		**7ML1830-1BN**
Extended channel bracket, floor mount		**7ML1830-1BP**
Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.)		**7ML1830-1BQ**
1" NPT locknut, plastic		**7ML1830-1DS**
1" BSPT locknut, plastic		**7ML1830-1DR**

[1)] Not available with flanged versions

[2)] Available with flanged versions only

[3)] Valid with mounting thread and facing options 0, 1 and 2 only

C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data		Order No.
Echomax® XPS-10F ultrasonic transducer	C)	**7ML1170-**
High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. Measuring range: min. 0.3 m, max.10 m		**0**
Mounting thread and facing		
1" NPT [(Taper), ANSI/ASME B1.20.1]		**1**
Cable length		
5 m (16.40 ft)		**B**
10 m (32.81 ft)		**C**
30 m (98.43 ft)		**D**
50 m (164.04 ft)		**E**
100 m (328.08 ft)		**F**
Mounting flange, flush mount		
None		**A**
3" ASME, 150 lb, flat faced		**B**
4" ASME, 150 lb, flat faced		**C**
6" ASME, 150 lb, flat faced		**D**
8" ASME , 150 lb, flat faced (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5, or EN 1092-1, or JIS B 2238 standard.)		**E**
Approvals		
FM Class I Div. 1		**1**
Further designs		Order code
Please add "**-Z**" to Order No. and specify Order code(s).		
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters); specify in plain text		**Y15**
Instruction manual		Order No.
English Note: The Instruction manual should be ordered as a separate line item on the order.	C)	**7ML1998-1DU01**
Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.	C)	**7ML1998-5HV61**
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		
Submergence shield kit		**7ML1830-1BH**
Easy Aimer 2, with ¾" x 1" NPT PVC coupling		**7ML1830-1AQ**
Easy Aimer 304, with stainless steel coupling		**7ML1830-1AU**
Universal box bracket, mounting kit		**7ML1830-1BK**
Channel bracket, wall mount		**7ML1830-1BL**
Extended channel bracket, wall mount		**7ML1830-1BM**
Channel bracket, floor mount		**7ML1830-1BN**
Extended channel bracket, floor mount		**7ML1830-1BP**
Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.)		**7ML1830-1BQ**
1" NPT locknut, plastic		**7ML1830-1DS**

C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data		Order No.
Echomax® XPS-15 ultrasonic transducer	C)	**7ML1118-**
High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. Measuring range: min. 0.3 m, max. 15 m		**0**
Mounting thread and facing		
1" NPT [(Taper), ANSI/ASME B1.20.1]		**0**
1" NPT [(Taper), ANSI/ASME B1.20.1] with foam facing[1]		**1**
1" NPT [(Taper), ANSI/ASME B1.20.1] with PTFE facing[2]		**2**
R 1" [(BSPT), EN 10226]		**3**
R 1" [(BSPT), EN 10226] with foam facing[1]		**4**
R 1" [(BSPT), EN 10226] with PTFE facing[2]		**5**
Cable length		
5 m (16.40 ft)		**B**
10 m (32.81 ft)		**C**
30 m (98.43 ft)		**E**
50 m (164.04 ft)		**F**
100 m (328.08 ft)		**K**
Mounting flange		
None		**A**
6" ASME, 150 lb, flat faced		**D**
8" ASME, 150 lb, flat faced		**E**
DN 150, PN 10/16, Type A, flat faced		**J**
DN 200, PN 10/16, Type A, flat faced		**K**
JIS10K 6B		**N**
JIS10K 8B		**P**
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1, or JIS B 2238 standard.)		
Approvals		
ATEX II 2GD, FM Class I Div. 2, SAA Class I		**3**
CSA Class I Div. 1, available with mounting options 0, 1, 2 only		**4**
Further designs		Order code
Please add "**-Z**" to Order No. and specify Order code(s).		
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters); specify in plain text		**Y15**

Selection and Ordering data		Order No.
Instruction manual		
Quick Start Manual, multi-language	C)	**7ML1998-5QM82**
Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.	C)	**7ML1998-5HV61**
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		
Accessories		
Submergence shield kit		**7ML1830-1BJ**
Universal box bracket, mounting kit		**7ML1830-1BK**
Channel bracket, wall mount		**7ML1830-1BL**
Extended channel bracket, wall mount		**7ML1830-1BM**
Channel bracket, floor mount		**7ML1830-1BN**
Extended channel bracket, floor mount		**7ML1830-1BP**
Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.)		**7ML1830-1BQ**
1" NPT locknut, plastic		**7ML1830-1DS**
1" BSPT locknut, plastic		**7ML1830-1DR**
Easy Aimer 2, with ¾" x 1" NPT PVC coupling		**7ML1830-1AQ**
Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings		**7ML1830-1AX**
Easy Aimer 304 with stainless steel coupling		**7ML1830-1AU**
Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings		**7ML1830-1GN**

1) Not available with flanged versions

2) Available with flanged versions only

C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data

Order No.

Echomax® XPS-15F ultrasonic transducer C) **7ML1171 -**

High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor.
Measuring range: min. 0.3 m, max. 15m

0

Mounting thread and facing

1" NPT [(Taper), ANSI/ASME B1.20.1] **1**

Cable length

5 m (16.40 ft) **B**
10 m (32.81 ft) **C**
30 m (98.43 ft) **D**
50 m (164.04 ft) **E**
100 m (328.08 ft) **F**

Mounting flange, flush mount

None **A**
6" ASME, 150 lb, flat faced **B**
8" ASME, 150 lb, flat faced **C**
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5, or EN 1092-1, or JIS B 2238 standard.)

Approvals

FM Class I Div. 1 **1**

Further designs

Order code

Please add "**-Z**" to Order No. and specify Order code(s).

Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters); specify in plain text **Y15**

Instruction manual

Order No.

English C) **7ML1998-1DU01**
Note: The Instruction manual should be ordered as a separate line item on the order.

Applications Guidelines, multi-language C) **7ML1998-5HV61**
Note: The Applications Guidelines should be ordered as a separate line item on the order.

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Accessories

Submergence shield kit **7ML1830-1BJ**
Universal box bracket, mounting kit **7ML1830-1BK**
Channel bracket, wall mount **7ML1830-1BL**
Extended channel bracket, wall mount **7ML1830-1BM**
Channel bracket, floor mount **7ML1830-1BN**
Extended channel bracket, floor mount **7ML1830-1BP**
Bridge channel bracket, floor mount **7ML1830-1BQ**
(See Mounting Brackets on page 5/143 for more information.)
1" NPT locknut, plastic **7ML1830-1DS**
Easy Aimer 2, with ¾" x 1" NPT PVC coupling **7ML1830-1AQ**
Easy Aimer 304 with stainless steel coupling **7ML1830-1AU**

Selection and Ordering data

Order No.

Echomax® XPS-30 ultrasonic transducer C) **7ML1123 -**

High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor.

0

1½" universal thread compatible with 1½" NPT and R 1½" [(BSPT), EN 10226]
Measuring range: min. 0.6 m (1.97 ft), max. 30 m (98.43 ft)

Mounting thread and facing

1½" universal thread **0**
1½" universal thread, foam facing[1] **1**
1½" universal thread, PTFE facing[2] **2**

Cable length

5 m (16.40 ft) **B**
10 m (32.81 ft) **C**
30 m (98.43 ft) **E**
50 m (164.04 ft) **F**
100 m (328.08 ft) **K**

Mounting flange

None **A**
6" ASME, 150 lb, flat faced **D**
8" ASME, 150 lb, flat faced **E**
DN 150, PN 10/16, Type A, flat faced **J**
DN 200, PN 10/16, Type A, flat faced **K**
JIS10K 6B **N**
JIS10K 8B **P**
(Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1, or JIS B 2238 standard.)

Approvals

ATEX II 2G 1D, FM Class I Div 2, SAA **5**

Further designs

Order code

Please add "**-Z**" to Order No. and specify Order code(s).

Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters) specify in plain text **Y15**

Instruction manual

Order No.

Quick Start Manual, multi-language C) **7ML1998-5QM82**
Applications Guidelines, multi-language C) **7ML1998-5HV61**
Note: The Applications Guidelines should be ordered as a separate line item on the order.

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Accessories

1½" BSPT locknut, plastic **7ML1830-1DP**
Easy Aimer 2, 1½" NPT galvanized coupling **7ML1830-1AN**
Easy Aimer 2, 1½" NPT with stainless steel coupling **7ML1830-1AT**
Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings **7ML1830-1AX**
Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings **7ML1830-1GN**

[1] Not available with flanged versions

[2] Available with flanged versions only

C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data

		Order No.
Echomax® XPS-40 ultrasonic transducer	C)	**7ML1127-**
High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. 1½" universal thread compatible with 1½" NPT and R 1½" [(BSPT), EN 10226] Measuring range: min. 0.9 m (2.95 ft), max. 40 m (131.23 ft)		**0**
Mounting thread and facing		
1½" universal thread		**0**
1½" universal thread, foam facing		**1**
Cable length		
5 m (16.40 ft)		**B**
10 m (32.81 ft)		**C**
30 m (98.43 ft)		**E**
50 m (164.04 ft)		**F**
100 m (328.08 ft)		**K**
Mounting flange		
None		**A**
Approvals		
ATEX II 2G 1D, FM Class I Div 2, SAA		**5**

Further designs	Order code
Please add "**-Z**" to Order No. and specify Order code(s).	
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters) specify in plain text	**Y15**

Instruction manual		Order No.
Quick Start Manual, multi-language	C)	**7ML1998-5QM82**
Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.	C)	**7ML1998-5HV61**
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.		

Accessories	
1½" BSPT locknut, plastic	**7ML1830-1DP**
Easy Aimer 2, 1½" NPT galvanized coupling	**7ML1830-1AN**
Easy Aimer 2, 1½" NPT with stainless steel coupling	**7ML1830-1AT**
Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings	**7ML1830-1AX**
Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings	**7ML1830-1GN**

C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data

Order No.

Echomax® XCT-8 ultrasonic transducer C) **7ML1132-**

High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor.
Ambient temperatures up to +145 °C (+293 °F)
Measuring range: min. 0.6 m (2 ft), max. 8 m (26 ft)

0

Mounting thread and facing

1" NPT [(Taper), ANSI/ASME B1.20.1]	**0**
1" NPT [(Taper), ANSI/ASME B1.20.1], PTFE facing[1)]	**1**
R 1" [(BSPT), EN 10226]	**2**
R 1" [(BSPT), EN 10226], PTFE facing[1)]	**3**

Cable length

1 m (3.28 ft)	**A**
5 m (16.40 ft)	**B**
10 m (32.81 ft)	**C**
30 m (98.43 ft)	**E**
50 m (164.04 ft)	**F**
100 m (328.08 ft)	**K**

Mounting flange

None	**A**
3" ASME, 150 lb, flat faced	**C**
4" ASME, 150 lb, flat faced	**D**
6" ASME, 150 lb, flat faced	**E**
DN 80, PN 10/16, Type A, flat faced	**G**
DN 100, PN 10/16, Type A, flat faced	**J**
DN 150, PN 10/16, Type A, flat faced	**L**
JIS10K 3B	**M**
JIS10K 4B	**P**
JIS10K 6B (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 or JIS B 2238 standard.)	**R**
3" universal[2)]	**S**
4" universal[3)]	**T**
6" universal[4)]	**U**
4" sanitary flange, available with approval option 6 and PTFE facing only	**V**

Approvals

ATEX II 2G, FM Class I, Div. 2, SAA	**4**
CSA Class I Div. 1, available with mounting thread and facing option 0	**5**
3A Sanitary (only with 4" sanitary flange, option V)	**6**

Further designs

Order code

Please add "**-Z**" to Order No. and specify Order code(s).

Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters) specify in plain text	**Y15**

Selection and Ordering data

Order No.

Echomax® XCT-8 ultrasonic transducer C) **7ML1132-**

High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor.
Ambient temperatures up to +145 °C (+293 °F)
Measuring range: min. 0.6 m (2 ft), max. 8 m (26 ft)

0

Instruction manual

Quick start manual, multi-language	C)	**7ML1998-5QM82**
XCT-8 with Sanitary Flange, multi-language Note: This manual should be ordered as a separate line item with Mounting Option V.	C)	**7ML1998-5HX61**
Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.	C)	**7ML1998-5HV61**

This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.

Accessories

Submersible hood	**7ML1830-1BH**
Universal box bracket, mounting kit	**7ML1830-1BK**
Channel bracket, wall mount	**7ML1830-1BL**
Extended channel bracket, wall mount	**7ML1830-1BM**
Channel bracket, floor mount	**7ML1830-1BN**
Extended channel bracket, floor mount	**7ML1830-1BP**
Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.)	**7ML1830-1BQ**
1" NPT locknut, plastic	**7ML1830-1DS**
1" BSPT locknut, plastic	**7ML1830-1DR**
Easy Aimer 304 with stainless steel coupling	**7ML1830-1AU**
Easy Aimer, aluminum, with M20 adapter and ¾ to 1" and 1½" BSPT couplings	**7ML1830-1AX**
Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings	**7ML1830-1GN**
Sanitary, 4" mounting clamp	**7ML1830-1BR**
Sanitary, isolating gasket C)	**7ML1830-1KC**

1) Available with flange versions S, T, U and V only

2) Universal fits 3" ASME, DN80, JIS 10K3B style

3) Universal fits 4" ASME, DN100, JIS 10K4B style

4) Universal fits 6" ASME, DN150, JIS 10K6B style

C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data

Order No.

Echomax® XCT-12 ultrasonic transducer C) **7ML1136-**

High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor.
Ambient temperatures up to +145 °C (+293 °F)
Measuring range: min. 0.6 m (2 ft), max.12 m (40 ft)

Mounting thread and facing	
1" NPT [(Taper), ANSI/ASME B1.20.1]	**0**
1" NPT [(Taper), ANSI/ASME B1.20.1], PTFE facing, available for flange options U only	**1**
R 1" [(BSPT), EN 10226]	**2**
R 1" [(BSPT), EN 10226], PTFE facing, available for flange options U only	**3**
Cable length	
1 m (3.28 ft)	**A**
5 m (16.40 ft)	**B**
10 m (32.81 ft)	**C**
30 m (98.43 ft)	**E**
50 m (164.04 ft)	**F**
100 m (328.08 ft)	**K**
Mounting flange	
None	**A**
6" ASME, 150 lb, flat faced	**D**
8" ASME, 150 lb, flat faced	**E**
DN 150, PN 10/16, Type A, flat faced	**J**
DN 200, PN 10/16, Type A, flat faced	**K**
JIS10K 6B	**N**
JIS10K 8B (Note: Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 or JIS B 2238 standard.)	**P**
6" universal for 6" ASME, DIN 150 or JIS 10K6B style	**U**
Approvals	
ATEX II 2G, FM Class I, Div. 2, SAA	**3**
CSA Class I, Div. 1, available with mounting thread and facing option 0 only	**4**

Further designs	Order code
Please add "**-Z**" to Order No. and specify Order code(s).	
Stainless steel tag [69 mm x 50 mm (2.71 x 1.97")]: Measuring-point number/identification (max. 16 characters) specify in plain text	**Y15**

Instruction manual	Order No.
Quick Start Manual, multi-language	C) **7ML1998-5QM82**
Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.	C) **7ML1998-5HV61**
This device is shipped with the Siemens Milltronics manual CD containing the complete ATEX Quick Start and instruction manual library.	

Selection and Ordering data

Order No.

Echomax® XCT-12 ultrasonic transducer C) **7ML1136-**

High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor.
Ambient temperatures up to +145 °C (+293 °F)
Measuring range: min. 0.6 m (2 ft), max.12 m (40 ft)

Accessories	
Submergence shield kit	**7ML1830-1BJ**
Universal box bracket, mounting kit	**7ML1830-1BK**
Channel bracket, wall mount	**7ML1830-1BL**
Extended channel bracket, wall mount	**7ML1830-1BM**
Channel bracket, floor mount	**7ML1830-1BN**
Extended channel bracket, floor mount	**7ML1830-1BP**
Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.)	**7ML1830-1BQ**
1" NPT locknut, plastic	**7ML1830-1DS**
1" BSPT locknut, plastic	**7ML1830-1DR**
Easy Aimer 304 with stainless steel coupling	**7ML1830-1AU**
Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings	**7ML1830-1AX**
Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings	**7ML1830-1GN**

C) Subject to export regulations AL: N, ECCN: EAR99