
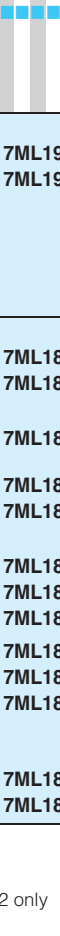


Selection and Ordering data		Order No.
Echomax® XPS-10 ultrasonic transducer	C) 7ML1115-	
High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. Measuring range: min. 0.3 m, max.10 m		
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	R	
(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 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		
Instruction Manual		
Quick Start guide, 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		
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 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		C) 7ML 1 17 0 - 0
Mounting thread and facing 1" NPT [(Taper), ANSI/ASME B1.20.1]		1
Cable length 5 m (16.40 ft) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)		B C D E F
Mounting flange, flush mount None 3" ASME, 150 lb, flat faced 4" ASME, 150 lb, flat faced 6" ASME, 150 lb, flat faced 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.)		A B C D E
Approvals FM Class I Div. 1		1
Further designs Please add "-Z" to Order No. and specify Order code(s).		Order code
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 English Note: The Instruction manual should be ordered as a separate line item on the order. Applications Guidelines, multi-language 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.		Order No. C) 7ML1998-1DU01 C) 7ML1998-5HV61
Accessories Submergence shield kit Easy Aimer 2, with ¾" x 1" NPT PVC coupling Easy Aimer 304, with stainless steel coupling Universal box bracket, mounting kit Channel bracket, wall mount Extended channel bracket, wall mount Channel bracket, floor mount Extended channel bracket, floor mount Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.) 1" NPT locknut, plastic		7ML1830-1BH 7ML1830-1AQ 7ML1830-1AU 7ML1830-1BK 7ML1830-1BL 7ML1830-1BM 7ML1830-1BN 7ML1830-1BP 7ML1830-1BQ 7ML1830-1DS

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

Selection and Ordering data		Order No.
Echomax® XPS-15 ultrasonic transducer 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		C) 7ML 1 1 1 8 -
		0
		1
		2
		3
Mounting thread and facing 1" NPT [(Taper), ANSI/ASME B1.20.1] 1" NPT [(Taper), ANSI/ASME B1.20.1] with foam facing ¹⁾ 1" NPT [(Taper), ANSI/ASME B1.20.1] with PTFE facing ²⁾ R 1" [(BSPT), EN 10226] R 1" [(BSPT), EN 10226] with foam facing ¹⁾ R 1" [(BSPT), EN 10226] with PTFE facing ²⁾		4
		5
		B
		C
		E
Cable length 5 m (16.40 ft) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)		F
		K
		A
		D
		E
Mounting flange None 6" ASME, 150 lb, flat faced 8" ASME, 150 lb, flat faced DN 150, PN 10/16, Type A, flat faced DN 200, PN 10/16, Type A, flat faced JIS10K 6B 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.)		J
		K
		N
		P
		3
Approvals ATEX II 2GD, FM Class I Div. 2, SAA Class I 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 Applications Guidelines, multi-language 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.		C) 7ML1998-5QM82
		C) 7ML1998-5HV61
Accessories Submergence shield kit Universal box bracket, mounting kit Channel bracket, wall mount Extended channel bracket, wall mount Channel bracket, floor mount Extended channel bracket, floor mount Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.) 1" NPT locknut, plastic 1" BSPT locknut, plastic Easy Aimer 2, with ¾" x 1" NPT PVC coupling Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings Easy Aimer 304 with stainless steel coupling Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings		7ML1830-1BJ
		7ML1830-1BK
		7ML1830-1BL
		7ML1830-1BM
		7ML1830-1BN
		7ML1830-1BP
		7ML1830-1BQ
		7ML1830-1DS
		7ML1830-1DR
		7ML1830-1AQ
		7ML1830-1AX
		7ML1830-1AU
		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)	7ML 1 1 7 1 -
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) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)	B C D E F
Mounting flange, flush mount None 6" ASME, 150 lb, flat faced 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.)	A B C
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 (See Mounting Brackets on page 5/143 for more information.)	7ML1830-1BQ
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)	7ML 1 1 2 3 -
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. 0.6 m (1.97 ft), max. 30 m (98.43 ft)	0
Mounting thread and facing 1½" universal thread 1½" universal thread, foam facing ¹⁾ 1½" universal thread, PTFE facing ²⁾	0 1 2
Cable length 5 m (16.40 ft) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)	B C E F K
Mounting flange None 6" ASME, 150 lb, flat faced 8" ASME, 150 lb, flat faced DN 150, PN 10/16, Type A, flat faced DN 200, PN 10/16, Type A, flat faced JIS10K 6B 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.)	A D E J K N P
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


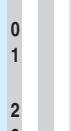
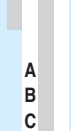

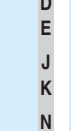
Selection and Ordering data		Order No.
Echomax® XPS-40 ultrasonic transducer High-frequency ultrasonic transducer designed for a wide variety of liquid and solid applications, for use with approved controllers. Includes integral temperature sensor. 1½" universal thread compatible with 1½" NPT and R 1½" [(BSPT), EN 10226] Measuring range: min. 0.9 m (2.95 ft), max. 40 m (131.23 ft)		C) 7ML 1 1 2 7 - 0
Mounting thread and facing 1½" universal thread 1½" universal thread, foam facing		0 1
Cable length 5 m (16.40 ft) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)		B C E F K
Mounting flange None		A
Approvals ATEX II 2G 1D, FM Class I Div 2, SAA		5
Further designs Please add "-Z" to Order No. and specify Order code(s).		Order code
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 Quick Start Manual, multi-language Applications Guidelines, multi-language 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.		Order No. C) 7ML1998-5QM82 C) 7ML1998-5HV61
Accessories 1½" BSPT locknut, plastic Easy Aimer 2, 1½" NPT galvanized coupling Easy Aimer 2, 1½" NPT with stainless steel coupling Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings		7ML1830-1DP 7ML1830-1AN 7ML1830-1AT 7ML1830-1AX 7ML1830-1GN


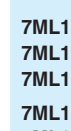
C) Subject to export regulations AL: N, ECCN: EAR99

Selection and Ordering data		Order No.
Echomax® XCT-8 ultrasonic transducer 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)		C) 7ML1132-0
Mounting thread and facing 1" NPT [(Taper), ANSI/ASME B1.20.1] 1" NPT [(Taper), ANSI/ASME B1.20.1], PTFE facing ¹⁾ R 1" [(BSPT), EN 10226] R 1" [(BSPT), EN 10226], PTFE facing ¹⁾		0 1 2 3
Cable length 1 m (3.28 ft) 5 m (16.40 ft) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)		A B C E F K
Mounting flange None 3" ASME, 150 lb, flat faced 4" ASME, 150 lb, flat faced 6" ASME, 150 lb, flat faced DN 80, PN 10/16, Type A, flat faced DN 100, PN 10/16, Type A, flat faced DN 150, PN 10/16, Type A, flat faced JIS10K 3B JIS10K 4B 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.) 3" universal ²⁾ 4" universal ³⁾ 6" universal ⁴⁾ 4" sanitary flange, available with approval option 6 and PTFE facing only		A C D E G J L M P R S T U V
Approvals ATEX II 2G, FM Class I, Div. 2, SAA CSA Class I Div. 1, available with mounting thread and facing option 0 3A Sanitary (only with 4" sanitary flange, option V)		4 5 6
Further designs Please add "-Z" to Order No. and specify Order code(s).		Order code
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 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)		C) 7ML1132-0
Instruction manual Quick start manual, multi-language XCT-8 with Sanitary Flange, multi-language Note: This manual should be ordered as a separate line item with Mounting Option V. Applications Guidelines, multi-language 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.		C) 7ML1998-5QM82 C) 7ML1998-5HX61 C) 7ML1998-5HV61
Accessories Submersible hood Universal box bracket, mounting kit Channel bracket, wall mount Extended channel bracket, wall mount Channel bracket, floor mount Extended channel bracket, floor mount Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.) 1" NPT locknut, plastic 1" BSPT locknut, plastic Easy Aimer 304 with stainless steel coupling Easy Aimer, aluminum, with M20 adapter and ¾ to 1" and 1½" BSPT couplings Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings Sanitary, 4" mounting clamp Sanitary, isolating gasket		7ML1830-1BH 7ML1830-1BK 7ML1830-1BL 7ML1830-1BM 7ML1830-1BN 7ML1830-1BP 7ML1830-1BQ 7ML1830-1DS 7ML1830-1DR 7ML1830-1AU 7ML1830-1AX 7ML1830-1GN 7ML1830-1BR 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 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)	C) 7 M L 1 1 3 6 - 	0
Mounting thread and facing 1" NPT [(Taper), ANSI/ASME B1.20.1] 1" NPT [(Taper), ANSI/ASME B1.20.1], PTFE facing, available for flange options U only R 1" [(BSPT), EN 10226] R 1" [(BSPT), EN 10226], PTFE facing, available for flange options U only		0 1 2 3
Cable length 1 m (3.28 ft) 5 m (16.40 ft) 10 m (32.81 ft) 30 m (98.43 ft) 50 m (164.04 ft) 100 m (328.08 ft)		A B C E F K
Mounting flange None 6" ASME, 150 lb, flat faced 8" ASME, 150 lb, flat faced DN 150, PN 10/16, Type A, flat faced DN 200, PN 10/16, Type A, flat faced JIS10K 6B 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.) 6" universal for 6" ASME, DIN 150 or JIS 10K6B style		A D E J K N P U
Approvals ATEX II 2G, FM Class I, Div. 2, SAA CSA Class I, Div. 1, available with mounting thread and facing option 0 only		3 4
Further designs Please add "-Z" to Order No. and specify Order code(s).	Order code	
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 Quick Start Manual, multi-language Applications Guidelines, multi-language 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.	Order No. C) 7ML1998-5QM82 C) 7ML1998-5HV61	

Selection and Ordering data		Order No.
Echomax® XCT-12 ultrasonic transducer 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)		C) 7ML 1136 -
		0
Accessories Submergence shield kit Universal box bracket, mounting kit Channel bracket, wall mount Extended channel bracket, wall mount Channel bracket, floor mount Extended channel bracket, floor mount Bridge channel bracket, floor mount (See Mounting Brackets on page 5/143 for more information.) 1" NPT locknut, plastic 1" BSPT locknut, plastic Easy Aimer 304 with stainless steel coupling Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 SS couplings		7ML1830-1BJ 7ML1830-1BK 7ML1830-1BL 7ML1830-1BM 7ML1830-1BN 7ML1830-1BP 7ML1830-1BQ 7ML1830-1DS 7ML1830-1DR 7ML1830-1AU 7ML1830-1AX 7ML1830-1GN

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