









Level Measurement

Continuous level measurement – Ultrasonic transducers



EchoMax XPS

Selection and Ordering data	Article No.	Selection and Ordering data	Order code
EchoMax XPS-10 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	7ML1115- 0	Further designs Please add "-Z" to Article No. and specify Order code(s). 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
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		Operating Instructions Quick Start guide, 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 DVD containing the ATEX Quick Start and Operating Instructions library.	Article No. A5E32282889 7ML1998-5HV61
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		Accessories Tag, stainless steel with hole, 12 x 45 mm (0.47 x 1.77 inch), one text line for fastening on sensors Submergence shield kit 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 stainless steel couplings 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 4/188 for more information) 1" NPT locknut, plastic 1" BSPT locknut, plastic	7ML1930-1BJ 7ML1830-1BH 7ML1830-1AQ 7ML1830-1AX 7ML1830-1AU 7ML1830-1GN 7ML1830-1BK 7ML1830-1BL 7ML1830-1BM 7ML1830-1BN 7ML1830-1BP 7ML1830-1BQ 7ML1830-1DS 7ML1830-1DR
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 2220 standard.)			
Approvals ATEX II 2 GD, FM Class I Div. 2, SAA Class I Zone 1  3 CSA Class I Div. 1 ³⁾  4			

¹⁾ Not available with flanged versions

²⁾ Available with flanged versions only

³⁾ Valid with mounting thread and facing options 0 ... 2 only

 We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix.

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EchoMax XPS

Selection and Ordering data

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

Mounting thread and facing

1" NPT [(Taper), ANSI/ASME B1.20.1] ◆ 0
1" NPT [(Taper), ANSI/ASME B1.20.1] with foam facing¹⁾ ◆ 1
1" NPT [(Taper), ANSI/ASME B1.20.1] with PTFE facing²⁾ ◆ 2
R 1" [(BSPT), EN 10226] ◆ 3
R 1" [(BSPT), EN 10226] with foam facing¹⁾ ◆ 4
R 1" [(BSPT), EN 10226] with PTFE facing²⁾ ◆ 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, 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 2220 standard.)

Approvals

ATEX II 2GD, FM Class I Div. 2, SAA Class I CSA Class I Div. 1³⁾ ◆ 3
◆ 4

- 1) Not available with flanged versions
2) Available with flanged versions only
3) Available with mounting options 0 ... 2 only

◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.

Article No.

7ML1118-
0

Selection and Ordering data

Further designs

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

Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: ◆ Y15
Measuring point number/ identification (max. 27 characters) specify in plain text

Operating Instructions

Quick Start guide, 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 DVD containing the ATEX Quick Start and Operating Instructions library.

Accessories

Tag, stainless steel with hole, 12 x 45 mm (0.47 x 1.77 inch), one text line for fastening on sensors 7ML1930-1BJ

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 4/188 for more information) 7ML1830-1BQ

1" NPT locknut, plastic 7ML1830-1DS

1" BSPT locknut, plastic 7ML1830-1DR

Easy Aimer 2, with 3/4" x 1" NPT PVC coupling 7ML1830-1AQ

Easy Aimer 2, aluminum with M20 adapter and 1" and 1 1/2" BSPT aluminum couplings 7ML1830-1AX

Easy Aimer 304 with stainless steel coupling 7ML1830-1AU

Easy Aimer 304, with M20 adapter and 1" and 1 1/2" BSPT 304 stainless steel couplings 7ML1830-1GN

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EchoMax XPS

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
EchoMax XPS-15F 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	7ML1171- 	EchoMax XPS-30 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. 0.6 m (1.97 ft), max. 30 m (98.43 ft)	7ML1123 -
Mounting thread and facing 1" NPT [(Taper), ANSI/ASME B1.20.1]	1	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 D E F	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, 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 2220 standard.)	A B C	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, Type A, flat faced	A D E J K N P
Approvals FM Class I Div. 1	1	Approvals ATEX II 2G 1D, FM Class I Div 2, SAA	5
Selection and Ordering data	Order code	Further designs Please add "-Z" to Article No. and specify Order code(s). Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]: Measuring point number/ identification (max. 27 characters) specify in plain text	
Operating Instructions Quick Start guide, 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 DVD containing the ATEX Quick Start and Operating Instructions library.	Article No. 7ML1998-1DU01 7ML1998-5HV61	Approvals ATEX II 2G 1D, FM Class I Div 2, SAA 1) Not available with flanged versions 2) Available with flanged versions only	
Accessories Tag, stainless steel with hole, 12 x 45 mm (0.47 x 1.77 inch), one text line for fastening on sensors 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 for more information) 1" NPT locknut, plastic Easy Aimer 2, with ¾" x 1" NPT PVC coupling Easy Aimer 304 with stainless steel coupling	7ML1930-1BJ 7ML1830-1BJ 7ML1830-1BK 7ML1830-1BL 7ML1830-1BM 7ML1830-1BN 7ML1830-1BP 7ML1830-1BQ 7ML1830-1DS 7ML1830-1AQ 7ML1830-1AU		

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EchoMax XPS

Selection and Ordering data	Order code
<p>Further designs</p> <p>Please add "-Z" to Article No. and specify Order code(s).</p>	
<p>Acrylic coated, stainless steel tag [13 x 45 mm stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]; measuring-point number/identification (max. 27 characters) specify in plain text</p>	Y15
<p>Operating Instructions</p> <p>Quick Start guide, multi-language</p> <p>Applications Guidelines, multi-language Note: The Applications Guidelines should be ordered as a separate line item on the order.</p> <p>This device is shipped with the Siemens Miltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.</p>	<p>Article No.</p> <p>A5E32282889</p> <p>7ML1998-5HV61</p>
<p>Accessories</p> <p>Tag, stainless steel with hole, 12 x 45 mm (0.47 x 1.77 inch), one text line for fastening on sensors</p> <p>1½" BSPT locknut, plastic</p> <p>Easy Aimer 2, 1½" NPT galvanized coupling</p> <p>Easy Aimer 304, NPT with 1½" coupling</p> <p>Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings</p> <p>Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 stainless steel couplings</p>	<p>7ML1930-1BJ</p> <p>7ML1830-1DP</p> <p>7ML1830-1AN</p> <p>7ML1830-1AT</p> <p>7ML1830-1AX</p> <p>7ML1830-1GN</p>