

**Selection and Ordering data**

Article No.

**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

➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

**Mounting thread and facing**

1" NPT [(Taper), ANSI/ASME B1.20.1] ➤ 0

1" NPT [(Taper), ANSI/ASME B1.20.1] with foam facing<sup>1)</sup> 1

1" NPT [(Taper), ANSI/ASME B1.20.1] with PTFE facing<sup>2)</sup> 2

R 1" [(BSPT), EN 10226] ➤ 3

R 1" [(BSPT), EN 10226] with foam facing<sup>1)</sup> 4

R 1" [(BSPT), EN 10226] with PTFE facing<sup>2)</sup> 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 2220 standard.)

**Approvals**

ATEX 2GD Ex mb IIC T4 Gb, Ex tb IIIC T135 °C Db; ➤ 3

IECEx SIR 13.0009X Ex mb IIC T4 Gb, Ex tb IIIC T135 °C Db; FM Class I, Div. 2, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III

CSA Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G, Class III<sup>3)</sup> ➤ 4

<sup>1)</sup> Not available with flanged versions

<sup>2)</sup> Available with flanged versions only

<sup>3)</sup> 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.

**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

**Y15**
**Operating Instructions**

Quick Start guide, multi-language

Applications Guidelines, multi-language

Note: The Operating Instructions should be ordered as a separate line item on the order.

All literature is available to download for free, in a range of languages, at <http://www.siemens.com/processinstrumentation/documentation>

This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Quick Start and Operating Instructions library.

Article No.

**A5E32282889**
**7ML1998-5HV61**
**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

**7ML1830-1BH**

Easy Aimer 2, aluminum, NPT with ¾" x 1" PVC coupling

**7ML1830-1AQ**

Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings

**7ML1830-1AX**

Easy Aimer 304, NPT with 1" stainless steel coupling

**7ML1830-1AU**

Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 stainless steel 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 4/190 for more information)

**7ML1830-1BQ**

1" NPT locknut, plastic

**7ML1830-1DS**

1" BSPT locknut, plastic

**7ML1830-1DR**

**Selection and Ordering data**

Article 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

➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

**7ML1118-**
**Mounting thread and facing**

1" NPT [(Taper), ANSI/ASME B1.20.1] ➤ 0

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

with foam facing<sup>1)</sup>

1" NPT [(Taper), ANSI/ASME B1.20.1] 2

with PTFE facing<sup>2)</sup>

R 1" [(BSPT), EN 10226] ➤ 3

R 1" [(BSPT), EN 10226] with foam facing<sup>1)</sup> 4

R 1" [(BSPT), EN 10226] with PTFE facing<sup>2)</sup> 5

**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, 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 2220 standard.)

A  
D  
E  
J  
K  
N  
P

**Approvals**

ATEX 2GD Ex mb IIC T4 Gb, Ex tb IIIC T135 °C Db; ➤ 3

IECEX SIR 13.0009X Ex mb IIC T4 Gb, Ex tb IIIC

T135 °C Db; FM Class I, Div. 2, Groups A, B, C, D;

Class II, Div. 1, Groups E, F, G; Class III

CSA Class I, Div. 1, Groups A, B, C, D, Class II, ➤ 4

Div. 1, Groups E, F, G, Class III<sup>3)</sup>

<sup>1)</sup> Not available with flanged versions

<sup>2)</sup> Available with flanged versions only

<sup>3)</sup> 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.

**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)]; ➤ Y15

Measuring point number/ identification (max. 27 characters) specify in plain text

**Operating Instructions**

Quick Start guide, multi-language

Applications Guidelines, multi-language

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Article No.

**A5E32282889**
**7ML1998-5HV61**
**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 4/190 for more information) **7ML1830-1BQ**

1" NPT locknut, plastic **7ML1830-1DS**

1" BSPT locknut, plastic **7ML1830-1DR**

Easy Aimer 2, aluminum, NPT with ¾" x 1" PVC coupling **7ML1830-1AQ**

Easy Aimer 2, aluminum with M20 adapter and 1" and 1½" BSPT aluminum couplings **7ML1830-1AX**

Easy Aimer 304, NPT with 1" stainless steel coupling **7ML1830-1AU**

Easy Aimer 304, with M20 adapter and 1" and 1½" BSPT 304 stainless steel couplings **7ML1830-1GN**

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

Selection and Ordering data	Article No.
<b>EchoMax XPS-15F ultrasonic transducer</b> 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. 0.45 m, max. 15 m <a href="#">Click on the Article No. for the online configuration in the PIA Life Cycle Portal.</a>	<b>7ML1171-</b> 
<b>Mounting thread and facing</b> 1" NPT [(Taper), ANSI/ASME B1.20.1]	1
<b>Cable length</b> 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
<b>Mounting flange, flush mount</b> 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
<b>Approvals</b> FM Class I, Div. 1, Groups A, B, C, and D, Class II Div. 1, Groups E, F, and G, Class III	1

Selection and Ordering data	Article No.
<b>EchoMax XPS-30 ultrasonic transducer</b> 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) <a href="#">Click on the Article No. for the online configuration in the PIA Life Cycle Portal.</a>	<b>7ML1123-</b> 
<b>Mounting thread and facing</b> 1½" universal thread 1½" universal thread, foam facing <sup>1)</sup> 1½" universal thread, PTFE facing <sup>2)</sup>	0 1 2
<b>Cable length</b> 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
<b>Mounting flange</b> 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 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 2220 standard.)	A D E J K N P
<b>Approvals</b> ATEX 2G 1D Ex mb IIC T4 Gb, Ex ta IIIC T135 °C Da; IECEx SIR 13.0009X Ex mb IIC T4 Gb, Ex ta IIIC T135 °C Da <sup>1)</sup> Not available with flanged versions <sup>2)</sup> Available with flanged versions only	5

Selection and Ordering data	Order code
<b>Further designs</b> Please add <b>"-Z"</b> 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	<b>Y15</b>
<b>Operating Instructions</b> English Applications Guidelines, multi-language Note: The Operating Instructions should be ordered as a separate line item on the order. All literature is available to download for free, in a range of languages, at <a href="http://www.siemens.com/processinstrumentation/documentation">http://www.siemens.com/processinstrumentation/documentation</a> This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Quick Start and Operating Instructions library.	Article No. <b>A5E32725813</b> <b>7ML1998-5HV61</b>
<b>Accessories</b> 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 4/190 for more information) 1" NPT locknut, plastic Easy Aimer 2, aluminum, NPT with ¾" x 1" PVC coupling Easy Aimer 304, NPT with 1" stainless steel coupling	<b>7ML1930-1BJ</b>  <b>7ML1830-1BJ</b> <b>7ML1830-1BK</b> <b>7ML1830-1BL</b> <b>7ML1830-1BM</b> <b>7ML1830-1BN</b> <b>7ML1830-1BP</b> <b>7ML1830-1BQ</b>  <b>7ML1830-1DS</b> <b>7ML1830-1AQ</b>  <b>7ML1830-1AU</b>

Selection and Ordering data	Order code
<b>Further designs</b> Please add <b>"-Z"</b> 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	<b>Y15</b>
<b>Operating Instructions</b> All literature is available to download for free, in a range of languages, at <a href="http://www.siemens.com/processinstrumentation/documentation">http://www.siemens.com/processinstrumentation/documentation</a> This device is shipped with the Siemens Level and Weighing manual DVD containing the ATEX Quick Start and Operating Instructions library.	
<b>Accessories</b> Tag, stainless steel with hole, 12 x 45 mm (0.47 x 1.77 inch), one text line for fastening on sensors 1½" BSPT locknut, plastic Easy Aimer 2, aluminum, NPT with 1½" galvanized coupling Easy Aimer 304, NPT with 1½" 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 stainless steel couplings	Article No. <b>7ML1930-1BJ</b>  <b>7ML1830-1DP</b> <b>7ML1830-1AN</b> <b>7ML1830-1AT</b> <b>7ML1830-1AX</b>  <b>7ML1830-1GN</b>

**Selection and Ordering data**

Article No.

**EchoMax XPS-30C 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)

➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

**7ML1155-**
**Mounting thread and facing**

1½" universal thread

0

1½" universal thread, foam facing<sup>1)</sup>

1

1½" universal thread, PTFE facing<sup>2)</sup>

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, 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**

CSA, Class I, Div. 2, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III

4

**Selection and Ordering data**

Order code

**Further designs**

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

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

**Y15****Operating Instructions**

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**Accessories**

Article No.

Easy Aimer 2, aluminum, NPT with 1½" galvanized coupling

**7ML1830-1AN**

Easy Aimer 304, NPT with 1½" stainless steel coupling

**7ML1830-1AT**

1½" BSPT locknut, plastic

**7ML1830-1DP**

<sup>1)</sup> Not available with flanged version

<sup>2)</sup> Available for flanged versions only