

Small Size – Alloys

XM/XT-700 Series Combines Durability of Metal With a Compact Design for Restricted Spaces

Your most complete line of small, metal liquid level sensors...all from Gems Sensors.

- ▶ Stainless Steel or Brass Mountings and Stems
- ▶ 4 mm Resolution
- ▶ Indicating Length to 14" (356 mm); Stem Length to 20" (508 mm)

Designed for the needs of the OEM, XM/XT-700 Series transmitters are the ideal level sensor for shallow tanks and reservoirs. These compact units feature the rugged durability of stainless steel or brass construction in a lightweight package for continuous level indication. Ideal for tanks less than 2 feet deep.

XM/XT-700 Series transmitters are exceptionally versatile because of the many configurable options available.

1. Mounting Types

Each mounting type can be configured with stem lengths (L₀) and float material indicated in this table.

Note: Sanitary flange mountings are also available, but not shown. Please contact factory.



LEVEL SENSORS – CONTINUOUS

Type 1 1/8-27 NPT	Type 2 3/4-14 NPT ¹	Type 3 11-11.5 NPT ¹	Type 4 Ø 3-5/8" Flange
Type 5 1 1/16-12 UNF-2A	Type 6 3/8-24 UNF-2A	Type 7 1 1/4-11.5 NPT ¹	

in (mm)

Stem & Mounting Material	Brass or 316 Stainless Steel	
Maximum Length	20" (508 mm)	
Mounting Position	Vertical ± 30° Inclination	
Float Stops²	Brass Units: Beryllium Copper Grip Rings; Stainless Steel Units: SS ARMCO® PH 15-7 Mo Grip Rings	
Max. Pressure Rating³	See Float Value on Following Page	50 psi (3.45 bar)

Notes

1. Mounting Types 2, 3, 4, 5 & 7 are available with a 1/2" MNPT conduit adaptor. This option can be selected on the checklist.
2. In some instances, concentrations of chlorine and other corrosive compounds in the media require the use of collar type float stops. Consult factory for details.
3. Mounting only. Maximum pressure rating for complete unit will be the lower of this pressure or the selected float pressure (see Float Types, on next page).

2. Float Types

Float Materials	Polypropylene		
	Hollow	Foamed	Molded
Compatible Mounting Types	1, 3, 4, 5, 6, 7	1, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7
Float Dimensions			
Part Number	259125	119455	231500
Operating Temperature	-40 °F to +221 °F (-40 °C to +105 °C)	-40 °F to +221 °F (-40 °C to +105 °C)	-40 °F to +200 °F (-40 °C to +95 °C)
Maximum Pressure	50 psi (3.45 bar)	250 psi (17.24 bar)	Atmospheric
Min. Liquid Specific Gravity	0.65	0.90	0.95

Float Materials	Buna N	Polysulfone	316/316L SS
	Compatible Mounting Types	1, 3, 4, 5, 6, 7	1, 3, 4, 5, 6, 7
Float Dimensions			
Part Number	245900	39005	258260
Operating Temperature	Water: to 180 °F (82.2 °C) Oil: -40 °F to +221 °F (-40 °C to +105 °C)	-40 °F to +221 °F (-40 °C to +105 °C)	-40 °F to +257 °F (-40 °C to +125 °C)
Maximum Pressure	300* psi (20.68 bar)	50 psi (3.45 bar)	275 psi (18.96 bar)
Min. Liquid Specific Gravity	0.45	0.75	0.85

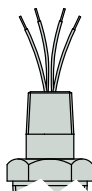
* De-rated with temperature.

in
(mm)

Options

Conduit Adapter


A 1/2" MNPT conduit is available for Mounting Type 2, 3, 4, 5 & 7. Select from list of options on the Check List.



Also Available

XM/XT-750 Combination Siphon and Level Transmitter

Contact Gems for more details. **800-378-1600**

 <p>Photocopy This Form Use one form for each product type you are selecting.</p> <p>This form may also be completed online at gemssensors.com for RFQ.</p>	This is a Request for a Quote Order P.O. _____ Quantity Needed _____ Date Required ____/____/____ Shipping Method: _____ Partial Accepted: Yes No	Name _____ Company _____ Street _____ City _____ State ____ Zip _____ Phone (____) _____ Fax (____) _____
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XM/XT-700 Types Custom Length Float Type Level Transmitters

Application Environmental Conditions

This information is essential to the accurate and proper operation of your GEMS configurable sensor. Please complete fully and accurately before ordering.

- | | |
|--|---|
| 1. Liquid Media: _____
2. Pressure: Minimum _____ psig / bar Maximum _____
3. Temperature: Minimum _____ °F / °C Maximum _____
4. Specific Gravity: Minimum _____ Maximum _____ | 5. Viscosity: _____ SSU
6. Tank Material: _____
Tank Depth: _____
7. Unit is Mounted In: T – Top Mounted B – Bottom Mounted |
|--|---|

1. Series Type:

XM/XT-700

2. Mounting Type and Materials:

A. Mounting Type (select one):

- | | | | |
|--------|--------|--------|--------|
| Type 1 | Type 2 | Type 3 | Type 4 |
| Type 5 | Type 6 | Type 7 | |

Options

1/2" MNPT Conduit Adapter
(Types 2, 3, 4, 5 or 7 only)

B. Mount and Stem Material (select one):

- Brass
316 Stainless Steel

3. Float Part Number:

- | | | |
|--------|--------|--------|
| 259125 | 119455 | 231500 |
| 245900 | 39005 | 258260 |

4. Electrical Connections

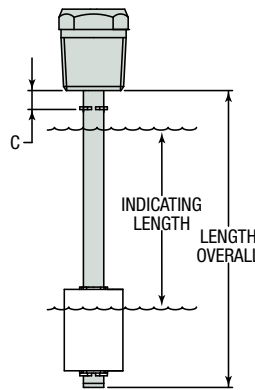
(select one type plus length value):

- Lead Wire: Length 12" 24" Other _____
 Cable: Length 12" 24" Other _____
 Other _____

Please contact GEMS Sensors Inc. for any configuration or special requirements not covered on this form. **800-378-1600**

Additional minimum charges may apply on special orders.

5. Dimensions:



C: Minimum distance from bottom of mounting to upper float stop.

Mounting	C Dim. Value per Output Type (Inches)		
	Proportional	Volt	Current
1	0	0.69	1.44
2	0	0.44	1.19
2c	0	0	0.25
3	0	0.25	1
3c	0	0	0.19
4	0	0.75	1.5
4c	0	0.25	1
5	0	0.38	1.13
5c	0	0	0.19
6	0	0.5	1.25
7	0	0.25	1
7c	0	0	0.25

Note: For Proportional values of "0" no upper grip ring is installed. Float stops at bottom of mount.

Provide values for both items and check the box next to the most critical value.

- Indicating Length _____ Inches Millimeters
 Length Overall _____ Inches Millimeters

6. Output:

XM-700

Proportional Voltage
Planned Input Voltage _____

XT-700

- 2-Wire, Loop Powered 4–20 mA Output (Insert Mounted)
- 3-Wire, 0–5 VDC (Insert Mounted)
- 3-Wire, 0–10 VDC (Insert Mounted)

