

## Small Size – Alloys

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

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

These compact units feature the rugged durability of stainless steel or brass construction in a lightweight package. Ideal for tanks less than 2 feet.

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

**ORDER IT!**  
Ordering is Easy! See Page C-8.  
Easy online ordering too!



### 1. Mounting Types

Each mounting type can be configured with stem lengths ( $L_0$ ) and float material indicated in this table.

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

Type 1 1/8" NPT	Type 2 3/4" NPT <sup>1</sup>	Type 3 1" NPT <sup>1</sup>	Type 4 3-5/8" Dia. Flange
Type 5 1-5/16-12UNF-2A	Type 6 3/8-24	Type 7 1-1/4" NPT <sup>1</sup>	

Dimensions expressed as: inches (millimeters)

Stem and Mounting Material	Brass or 316 Stainless Steel	
Max Length	20" (508 mm)	
Mounting Position	Vertical $\pm 30^\circ$ Inclination	
Float Stops <sup>2</sup>	Brass Units: Beryllium Copper Grip Rings; Stainless Steel Units: S.S. ARMCO PH-15-7MO Grip Rings	
Pressure Rating, PSI, Max. <sup>3</sup>	See Float Value on Following Page	50

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.

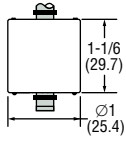
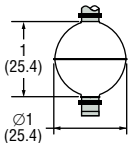
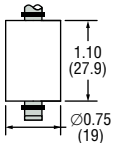
2. In some instances, concentrations of chlorine and other corrosive compounds in the media require the use of collar type float stops. Consult factory for details.

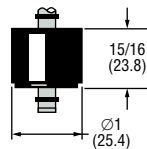
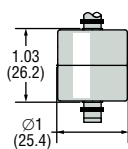
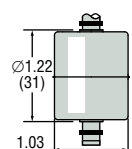
3. Mounting only. Maximum pressure rating for complete unit will be the lower of this pressure or the selected float pressure (see Float Types, on next page).

Mounting Options and Float Selection on following pages.

Order from: **C A Briggs Company**; 622 Mary Street; Suite 101 - Warminster, PA 18974

## 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	145730	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)
Pressure, PSI, Max.	50	250	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	1, 3, 4, 5, 6, 7
Float Dimensions			
Part Number	245900	39005	233580
Operating Temperature	Water: to 180°F (82.2°C)	-40°F to +221°F (-40°C to +105°C)**	-40°F to +257°F (-40°C to +125°C)**
	Oil: -40°F to +221°F (-40°C to +105°C)		
Pressure, PSI, Max.	300*	50	275
Min. Liquid Specific Gravity	0.45	0.75	0.85

\* De-rated with temperature.

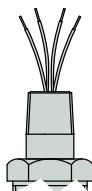
\*\* -40°F to 257°F (Standard Construction)

Dimensions expressed as: inches  
(millimeters)

### 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.



**FAX IT!**

267-673-8118

**Photocopy This Form**

Use one form for each product type you are selecting.

This form may also be completed online at [gemssensors.com](http://gemssensors.com) for RFQ.

This is a ☐ Request for a Quote  
☐ Order P.O.# \_\_\_\_\_

Quantity Needed \_\_\_\_\_

Date Required \_\_\_\_/\_\_\_\_/\_\_\_\_

Shipping Method: \_\_\_\_\_

Partials Accepted: ☐ Yes  
☐ No

Name \_\_\_\_\_

Company \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_

Phone (\_\_\_\_) \_\_\_\_\_

Fax (\_\_\_\_) \_\_\_\_\_

## 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 sensors. Please complete fully and accurately.

1. **Liquid Media:** \_\_\_\_\_
2. **Pressure:** Minimum \_\_\_\_\_ psig Maximum \_\_\_\_\_
3. **Temperature:** Minimum \_\_\_\_\_ °F Maximum \_\_\_\_\_
4. **Specific Gravity:** Minimum \_\_\_\_\_ Maximum \_\_\_\_\_

5. **Viscosity:** \_\_\_\_\_ SSU
6. **Tank Material:** \_\_\_\_\_
- Tank Depth:** \_\_\_\_\_
7. **Unit is Mounted In:** ☐ Tank Top ☐ Tank Bottom

### 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):

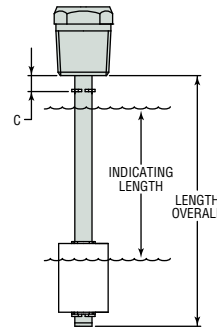
- ☐ Brass  
☐ 316 Stainless Steel

### 3. Float Part Number: \_\_\_\_\_

### 4. Electrical Connections (select one type plus length value):

- ☐ Lead Wire: Length ☐ 12" ☐ 24" ☐ Other \_\_\_\_\_
- ☐ Cable: Length ☐ 12" ☐ 24" ☐ Other \_\_\_\_\_
- ☐ Other \_\_\_\_\_

### 5. Dimensions:



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

Mounting	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 4-20mA Output (Insert Mounted)  
☐ 0-5 VDC  
☐ 0-10 VDC

Please Contact **C A Briggs Company** for any Special Configurations  
 Or requirements not covered on this form. **267-673-8117**

Additional minimum charges may apply on special orders.

For use by Gems Sensors & Controls

Quote: \$ \_\_\_\_\_ Date Quoted: \_\_\_\_/\_\_\_\_/\_\_\_\_



Order from: **C A Briggs Company**; 622 Mary Street; Suite 101 - Warminster, PA 18974

XM/XT-700 Series / p3of3 / 12-NOV-18 Phone: 267-673-8117 - Fax: 267-673-8118; E-Mail: [Sales@cabriggs.com](mailto:Sales@cabriggs.com) - [www.cabriggs.com](http://www.cabriggs.com)