

Непрерывные поплавковые датчики уровня ХМ/ХТ/ХМР/ХТР

Технические характеристики

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Small Size – Alloys

XM-860 Series – Compact, Resistive Output Level Sensors

- ▶ High Volume/Low Cost OEM Design
- ▶ Brass or Stainless Steel Construction
- ▶ 1/2" or 1" Resolution
- ▶ Lengths to 24 inches (610 mm)

OEMs with fluid gauging requirements now have an affordable, yet robust continuous output sensor they can use to great value. Gems XM-860 liquid level sensors are a durable, low-cost solution for applications that don't require high-resolution output. Made of brass or stainless steel, this series offers rugged construction, utilizing a new, coated reed switch core that stands up to high levels of shock and vibration. They are equally at home in applications ranging from tranquil storage day tanks to the challenge of off-highway vehicle fluids tank gauging.

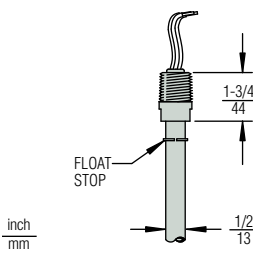
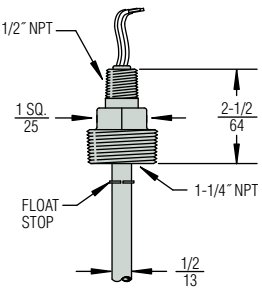
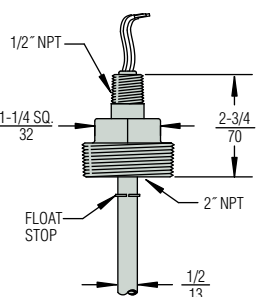
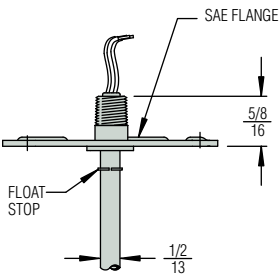
Gems XM-860 Advantages

- Floats provide true reading of liquid's surface position
- Floats can be used to sense dissimilar liquid interfaces (e.g. water/oil interface), including resulting emulsions.
- Unaffected by dielectric property of fluid
- Intrinsically-safe and Explosion-proof models available
- Unaffected by turbulence and motion

Typical Applications

- Generator Sets Fuel Tanks
- Auto Transmissions Fluid Reservoirs
- Reclamation Systems
- OHV Fuel Tanks
- Coolant Reservoirs
- Storage Day Tanks

1. Mounting Types

	Type 1 1/2" NPT Internal Mount	Type 2 1-1/4" NPT External Mount	Type 3 2" NPT External Mount	Type 4 SAE Flange External Mount
				
Stem Material	Brass or 316 Stainless Steel			Brass
Mounting Material	Brass or 316 Stainless Steel			Brass
Float Stop Material	Brass Units: Beryllium Copper Grip Rings; Stainless Steel Units: S.S. ARMC0 PH-15-7M0 Grip Rings			
Stem Length	24 inches (610 mm), Max.			
Output Wiring	Lead Wires Only	Lead Wires or Junction Box*		

* Explosion-Proof (EP) units are supplied with junction box. Junction boxes for IS- or non-rated units may be ordered separately—P/N 113873.

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Easy online ordering too!



2. Output Types

Make ordering selections from *either* the 2-wire or 3-wire output types detailed below.

2a. 2-Wire Versions, 1-inch Resolution

Designed for simplicity and economy, 2-wire resistive-output versions connect directly to many common automotive-type panel meters. Accuracy is 1 inch. Select the output resistance code from the table below for your Order Check List.

Output Resistance				
Resistance Code	Top Hard Stop	Individual Step R	Full Transition	Unit
R1	33	$\frac{240-33}{A \text{ (In.)}}$	240	Ohms
R2	33	$\frac{255-33}{A \text{ (In.)}}$	255	Ohms
R3	240	$\frac{240-33}{A \text{ (In.)}}$	33	Ohms
R4	255	$\frac{255-33}{A \text{ (In.)}}$	33	Ohms

High Resistance = $\pm 2.75\Omega$
Low Resistance = $33 \pm 0.50\Omega$

Electrical Rating – Red to Black Wire

Resistance	33-240 or 33-255
Minimum Resistance	1000 Ohms
Maximum Voltage	30.0 VDC
Maximum Current	0.030 Amps
Maximum Power Dissipation	0.10 Watts/Inch of Indication

2b. 3-Wire Versions, 1/2-inch Resolution

These versions connect to Gems signal-conditioners (optionally selected in step 6b) for a variety of VDC and mA outputs. Accuracy is 1/2 inch. The standard resistance code is shown below. Consult factory for other resistance values.

Resistance Code	Resistance Value			
	R _{Lead}	R	R _{Lag}	Unit
P1	0	100	0	Ohms

Total Indicating R = $R_{\text{Lead}} + (A \text{ (In.)} \times R) + R_{\text{Lag}}$

Electrical Rating – Red to Black Wire

Minimum Resistance	1000 Ohms
Maximum Voltage	30.0 VDC
Maximum Current	0.030 Amps
Maximum Power Dissipation	0.10 Watts/Inch of Indication

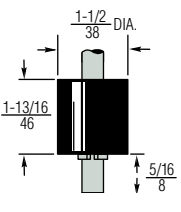
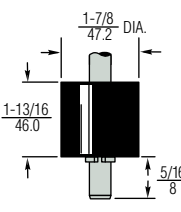
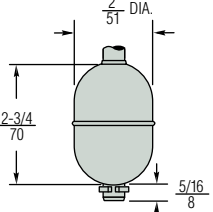
3. Output Options

- A. Non-Rated Units.** Supplied with lead wire output; junction box optional.
- B. Explosion-Proof Rated Units.** Supplied from factory with explosion-proof junction box.
- C. Intrinsically-Safe Rated Units.** Supplied with lead wire output; junction box optional.

4. Float Types

Make selection based on Mounting Type being used and performance requirements.

IMPORTANT: If you are specifying either an Explosion-Proof or Intrinsically-Safe output, you must select a stainless steel float here.

Float Material	Buna N	Buna N	316 Stainless Steel
Compatible Mountings	Type 1, 2, 3, 4	Type 1 & 3	Type 1 & 3
Float Dimensions			
Part Number	197428	43359	43590
Min. Liquid Specific Gravity	.63	.55	.75
Operating Pressure, Max*	150 PSI (10.3 bar)		300 PSI (20.7 bar)
Operating Temperature, Max.	Water: 180°F (82°C) Oil: 230°F (110°C)		300°F (149°C)

*@ Ambient Temperature

5. To Determine Dimensions

X: Dimensional factor based on selected float (see table below)

B: Overall Length = Inches of Indication + C** + X

C: Distance from bottom of mounting to float stop (customer specified):

- 1/4" (6.4mm) minimum
- 1-1/4" (31.8mm) minimum on Type 1, XT Series only

M: Distance from stem bottom to lowest level of indication

N: Distance from upper float stop to highest level of indication

Calculating Length

Note: 2-wire output units must specify Inches of Indication in even increments of 1 inch;

3-wire output units must be specified in even increments of 1/2 inch.

To find Overall Length when Inches or Indication is known:

- Inches of Indication + C** + X = Overall Length

To find Maximum Inches of Indication when Overall Length is known:

- Overall Length - C** - X = Maximum Inches of Indication

** C dimension is determined by customer.

If not specified, the float stop will be located at the minimum value (1/4").

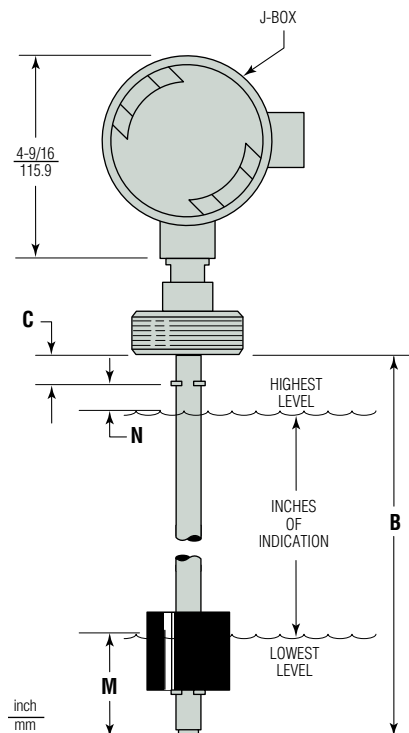
Float Factors

Float Part Number	X Factor	M Dimension	N Dimension
197428	2.5 (63.5)	1.312 (33.3)	1.187 (30.1)
43359	2.5 (63.5)	1.312 (33.3)	1.187 (30.1)
43590	3.437 (87.3)	2.187 (55.5)	1.25 (31.7)

inch (mm)

M and N Dimensions are based on water (specific gravity 1.0).

Typical Configuration



Small Size – Engineered Plastics

XM/XT-300 Engineered Plastics Series

Brings Continuous Output to Shallow Tanks

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

- ▶ All-Plastic Wetted Parts
- ▶ 4mm Resolution
- ▶ Indicating Length to 14" (356 mm)

Designed for the needs of the OEM, XM/XT-300 Series transmitters are the ideal level sensor for shallow tanks and reservoirs. Compact and versatile, these plastic level sensors offer a broad choice of mountings and float materials. The following pages illustrate the various design parameters available to configure the versatile XM/XT-300 Series Sensors.

1. Mounting Types

Each mounting type can be configured with stem lengths (L_0) and float materials indicated in this bulletin.



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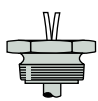
NPT Threads		Straight Threads		
Type 21 1/8" NPT	Type 22 1" NPT	Type 31 3/8" - 24	Type 32 1-5/16" - 12	Type 33 5/8" - 11
Metric Threads		Compression Types		
Type 41 G 1/4" (1/4" - 19 BSP)	Type 42 G 1" (1" - 11 BSP)	Type 51 M12 x 1.5 Straight Thread	Type 71 ¹ 5/8" - 11	Type 11 No Mounting
Flange Mountings ²				
Type 61 2" O.D. Flange		Type 63 Pop Flange		
Ø0.156/4 (4) HOLES EQUALLY SPACED AS SHOWN ON A 1.507/38 B.C.		MOUNT IN Ø1.31" - 1.32" OPENING		
Stem, Mounting and Collar Material	Polysulfone			
Max Length (L ₀)	20 inches (508 mm), Tolerance of L ₀ = ±1/16" (1.6 mm)			
Mounting Position	Vertical ±30° Inclination			

Notes:

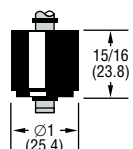
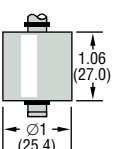
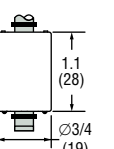
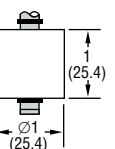
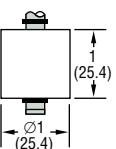
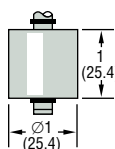
1. Type 71 mounting to be used with 3/4" diameter float only.
2. Not recommended for pressure applications.

Dimensions expressed as: inches (millimeters)

2. Electrical Connections

	Type 1 Leadwire	Type 2 Cable
		
Compatible Mounting Type(s)	All	
Protection Rating	IP64	
Extended Leads	#22 AWG PVC Wire, 24" (610mm) Min.	#22 AWG PVC Jacketed Cable, 24" (610mm) Min.

3. Float Types

Float Material	Buna N	Polysulfone	Polypropylene			PVDF	
			Solid Foamed		Hollow – 20% Glass Filled		
Float Dimensions							
Part Number	245900	39005	231500	119455	259125	174515	
Float Material Suitable for...	Oil, Fuels	Water-based Liquids	Broad Chemical Use			Low Specific Gravity Liquids	Broad Chemical Use
Operating Temperature ¹	Water: to 180°F (80°C)	-40°F to +221°F (-40°C to +105°C)	-40°F to +212°F (-40°C to +100°C)			-40°F to +221°F (-40°C to +105°C)	-40°F to +250°F (-40°C to +121°C)
	Oil: -40°F to +221°F (-40°C to +105°C)						
Pressure, psi (bar) Max. ²	250 (17)	50 (3.5)	Atmospheric	250 (17)	50 (3.5)	50 (3.5)	
Min. Media Specific Gravity	0.45	0.75	0.95	0.90	0.65	0.86	

Notes:

- Operating temperature range based on float ratings.
- When used with mounting Type 21, 32 or 22 only; Mounting Type 61, and 63 are not recommended for pressure applications. Pressures are derated with increasing temperature above 70°F

Dimensions expressed as: ^{inches}
(millimeters)

Large Size – Alloys

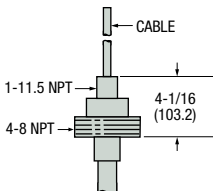
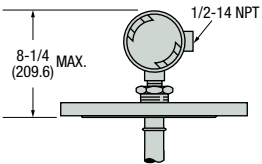
Sized for Deep Tanks and Rugged Duty

- ▶ Stainless Steel Construction
- ▶ Standard Lengths to 18 feet (549 cm)

These rugged transmitters are designed for tanks up to 18 feet (549 cm) in depth. Heavy duty stems resist turbulence, and float options accommodate liquids with minimum specific gravity as low as 0.53. Standard resolution is 1/2 inch; higher resolutions are available on request.

* Contact GEMS about solutions for deeper tanks.

1. Mounting Types

Series	XM/XT-66400	XM/XT-36490
Mounting	4-8 NPT	5" ANSI Flanges; 150#, 300#, or 600#
		
Stem Material	316L Stainless Steel	316L Stainless Steel
Mounting Material	316L Stainless Steel; or Carbon Steel	316L Stainless Steel; or Carbon Steel Flange
Float Stop Material	316L Stainless Steel	316L Stainless Steel
Maximum Overall Length	216" (549 cm)	

Note: XM/XT-36490 will be manufactured with matching Stem and Float Stop material. Consult factory for longer lengths.

Got Mud?

These Gems Alloy Float Level Sensors are the best, most reliable method to monitor mud pits. The large diameter, stainless steel stems are rugged and strong to handle heavily viscous mud and slurries. Use with the exceptionally-buoyant 8" float for best results.

ORDER IT!

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2. Float Types

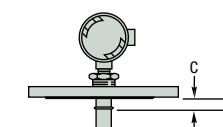
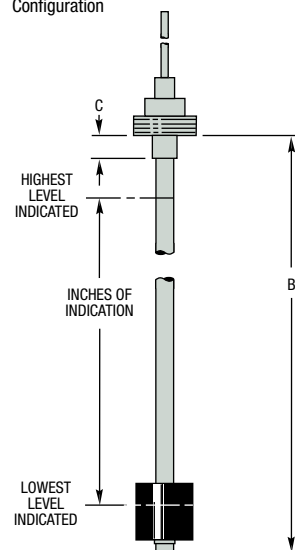
	Buna-N	Ø 4" Syntactic Foam	Ø 4" Stainless Steel	Ø 4-1/2" Stainless Steel	Ø 8" Stainless Steel**
Part Number	32230	31830	125520	35560	38609
Minimum Liquid Specific Gravity	0.59	0.87	0.57	0.78	0.53
Operating Temperature	-40 °F to +180 °F (-40 °C to +82 °C)	-40 °F to +225 °F (-40 °C to +107 °C)	-40 °F to +230 °F (-40 °C to +110 °C)		
Maximum Operating Pressure*	150 psi (10 bar)	2000 psi (138 bar)	15 psi (1 bar)	500 psi (35 bar)	150 psi (10 bar)

* Unit pressure rating is determined by the flange and float selected. Consult factory for higher pressure ratings.

** Float P/N 38609 must be installed on the transmitter stem from within the tank; or consult factory for larger flanges.

3. Dimensions

Typical Configuration



B: Overall Length = Inches of Indication + C + X (See Table at Right)

C: Distance From Bottom of Mounting to Float Stop (Customer Specified):

- 1/2" (12.7 mm) Minimum

Calculating Length

To find Overall Length when Inches or Indication is known:

- Inches of Indication + C* + X = Overall Length

To find Maximum Inches of Indication when Overall Length is known:

- Overall Length - C* - X = Maximum Inches of Indication

*C dimension is determined by customer.

Float Factor - X

Float Part Number	X
32230	6.75" (171.5 mm)
31830	6.75" (171.5 mm)
125520	7.75" (196.5 mm)
35560	6.75" (171.5 mm)
38609	11.375" (288.9 mm)

4. Input/Output

For XM- Series, no special output designation is necessary.

For XT- Series, specify the desired signal conditioning by Part Number.

Additional information about GEMS signal conditioning modules is found on Page C-26.

Series	Input Voltage	Output Signal	Part Number	Electrical Termination
XM-36490	10-30 VDC	Proportional Voltage	—	Junction Box
XM-66400				Cable, (4) Conductor, 30 ft. long, Nitrile Jacket
XT-Series	8-24 VDC	0-5 VDC	52532	Junction Box
	15-30 VDC	0-12 VDC	52533	
	10-40 VDC	4-20 mA	52550	
		4-20 mA	112300 ⚡	Panel Mount with Plug-In Base

⚡ Stock item

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 (L_0) and float material indicated in this table.

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



Type 1 1/8-27 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 5/16-12 UNF-2A	Type 6 3/8-24 UNF-2A	Type 7 1 1/4-11.5 NPT ¹	

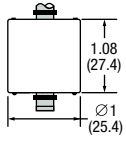
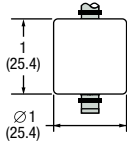
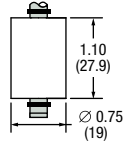
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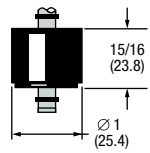
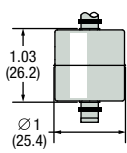
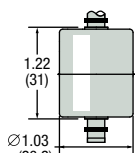
Stem & Mounting Material	Brass or 316 Stainless Steel	
Maximum Length	20" (508 mm)	
Mounting Position	Vertical ± 30° Inclination	
Float Stops ²	Brass Units: Beryllium Copper Grip Rings; Stainless Steel Units: SS ARMCO® PH 15-7 Mo Grip Rings	
Max. Pressure Rating ³	See Float Value on Following Page	50 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)	−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)		
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

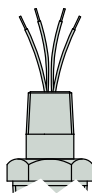
* De-rated with temperature.

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.



Small Size – Alloys

XM/XT-800 Series – Compact Analog Sensors

- ▶ Stainless or Brass Construction
- ▶ 1/4" Resolution
- ▶ Lengths to 144 inches (366 cm)
- ▶ OEM Configurations Available

These compact transmitters feature the rugged durability of stainless steel or brass construction. The XM-800 series provides analog output, and can be combined with GEMS Digital Meter Receiver Stations and compact Level Cubes described in this catalog. Our versatile XT-800 Series adds a choice of signal conditioning for use with GEMS digital bargraph receivers or other digital display and control equipment.

Approvals

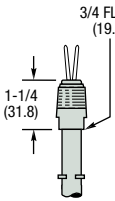
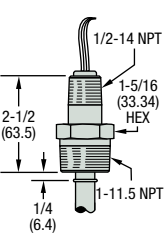
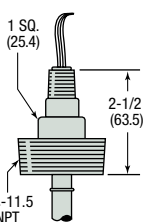
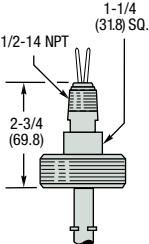
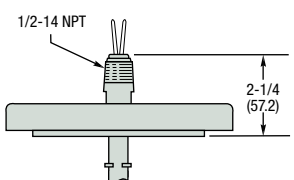
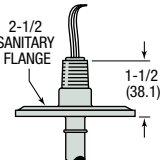
XM-800 and XT-800 Series transmitters may carry the following commercial approvals:

 UL-Recognized.

XM-800 Series transmitters only:

 CSA Certified

1. Mounting Types

	Type 1 1/2-14 NPT	Type 10 1-11.5 NPT	Type 2 1 1/4	Type 3 2-11.5 NPT	Type 4 3" 150# Flange	Type 6 2 1/2" Sanitary Flange
						
Stem Material	Brass or 316 Stainless Steel				316 Stainless Steel	
Mounting Material	Brass or 316 Stainless Steel				Carbon Steel or 316 SS	316 Stainless Steel
Float Stop Material	Brass Units: Beryllium Copper Grip Rings; Stainless Steel Units: S.S. Armco PH-15-7MO Grip Rings					
Operating Temperature* With J. Box Mounted or XM Signal Conditioners	Oil: -40 °F to +230 °F (-40 °C to +110 °C), Water: up to +180 °F (82.2 °C) — Buna-N Float -40 °F to +230 °F (-40 °C to +110 °C) — Stainless Steel Float					
With Stem Mounted Signal Conditioners	+5 °F to +160 °F (-15 °C to +70 °C)					
Operating Pressure	Dependent on Float Type; See Next Page					
Maximum Overall Length	72" (183 cm) Tubing; 144" (366 cm) Pipe (Types 3 & 4 only)					

* Consult factory for higher temperature ranges.

ORDER IT!

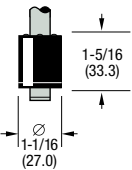
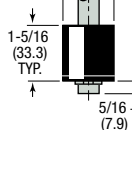
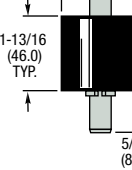
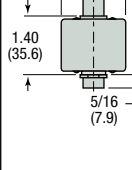
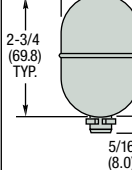
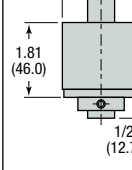
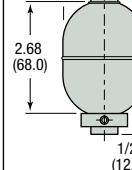
Ordering is Easy! See Page C-11.
Easy online ordering too!

Lengths
to 12 ft!



2. Float Types

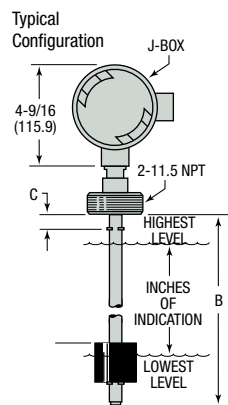
Based on the overall length required by your tank, select from two main subsets of floats below; further refine selection based on material and performance parameters.

	For Overall Lengths To 72"					For Lengths Greater Than 72" (144" Max.)	
Float Material	Buna N			Stainless Steel		Buna N	Stainless Steel
Float Dimensions							
Compatible Mountings	1, 2, 3, 4, 6, 10	1, 2, 3, 4, 6	1, 3, 4	1, 3, 4, 6	1, 3, 4	3, 4	3, 4
Part Number	253644	164255 ²	43359	156490	43590	69654	52084
Min. Liquid Spec. Gravity	0.55			0.70	0.75	0.55	0.75
Maximum Operating Pressure ¹	150 psi (10 bar)			80 psi (6 bar)	300 psi (21 bar)	150 psi (10 bar)	300 psi (21 bar)
Maximum Operating Temperature	Water: 180 °F (82 °C) Oil: 230 °F (110 °C)			230 °F (110 °C) ³		Water: 180 °F (82 °C) Oil: 230 °F (110 °C)	230 °F (110 °C) ³

Notes:

- ② Ambient Temperature
- Recommended for Type 2 mounting only.
- Consult factory for higher temperature range.

3. To Determine Dimensions



B: Overall Length = Inches of Indication + C + X (See Table at Right)

C: Distance From Bottom of Mounting to Float Stop (Customer Specified):

- 1/4" (6.4 mm) Minimum
- 1-1/4" (31.8 mm) Minimum on Type 1, XT Series only

Calculating Length

To find Overall Length when Inches or Indication is known:

- Inches of Indication + C* + X = Overall Length

To find Maximum Inches of Indication when Overall Length is known:

- Overall Length – C* – X = Maximum Inches of Indication

* C dimension is determined by customer.

Float Factor – X

Float Part Number	X
253644	2.125" (54.0 mm)
164255	2.0" (50.8 mm)
43359	2.5" (63.5 mm)
156490	2.062" (52.4 mm)
43590	3.437" (87.3 mm)
69654	2.687" (68.3 mm)
52084	3.625" (92.1 mm)

4. Input/Output

For XM-800 Series, no special output designation is necessary. For XT-800 Series, specify the desired signal conditioning by Part Number.

Additional information about GEMS signal conditioning modules is found on Page C-26.

Series	Input Voltage	Output Signal	Part Number	Electrical Termination	Compatible Mountings	
					Type 1	Types 2, 3, 4, 6 & 10
XM-800	10–30 VDC	Proportional Voltage	—	Lead Wires (3), 22 AWG, 24" (60.9 cm), PTFE Jacket	●	●
	8–24 VDC*	0–5 VDC	51965	Lead Wires, 22 AWG, 24" (60.9 cm), PTFE Jacket	●	●
XT-800	14–30 VDC*	0–12 VDC	51970		●	●
	8–24 VDC*	0–5 VDC	52536	Junction Box		●
	15–30 VDC*	0–12 VDC	52537			●
	10–40 VDC	4–20 mA	52555			●
		4–20 mA	112300 ⚡	Panel Mount with Plug-in Base	●	●
	7–24 VDC*	4–20 mA	239896	Lead Wires (2), 22 AWG, 24" (60.9 cm), PTFE Jacket	●	●

* Stem mounted

⚡ Stock item

Small Size – Engineered Plastics

XMP/XTP-800 Series Delivers Excellent Chemical Compatibility

- ▶ PVC or Polypropylene Materials
- ▶ 1/4" Resolution
- ▶ Lengths to 70 inches (177.8 cm)

Specifically designed to monitor chemical tanks and vats, the XMP-800 Series provides superb resistance to corrosive liquids and vapors. Use XMP-800 transmitters with GEMS Digital Bargraph Display Receiver or Level Cube Receivers described in this catalog. The XTP-800 Series adds a choice of signal conditioning for use with GEMS digital bargraph display receivers or other digital instrumentation and control equipment.



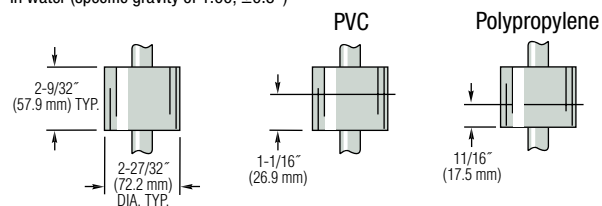
ORDER IT!

Ordering is Easy! See Page C-18.
Easy online ordering too!

	Type A 1" NPT	Type B 3" NPT	Type C 3" 150# Flange
XMP-800 Dimensions			
XTP-800 Dimensions			
Stem, Mounting and Float Stop Material	PVC or Polypropylene		
Operating Temperature	See Chart, Next Page		
Operating Voltage	10-30 VDC		
Overall Length, Max.	70" (177.8 cm); please consult factory for longer lengths		

2. Float Types

Float submersion depths:
In water (specific gravity of 1.00; $\pm 0.3''$)

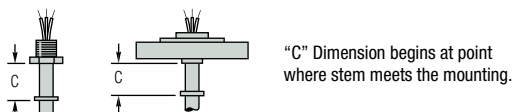
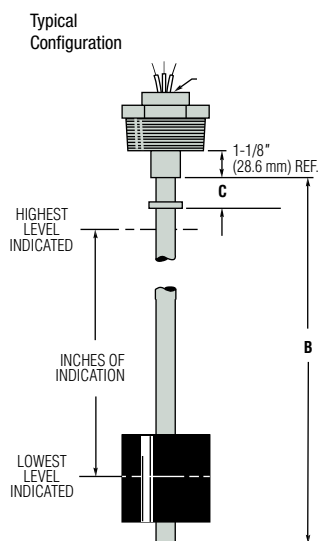


Material	Min. Liq. Specific Gravity	Part Number	Maximum Pressure vs. Temperature					
			0°F (17.8°C)	70°F (21.1°C)	100°F (37.8°C)	125°F (51.7°C)	140°F (60.0°C)	170°F (76.7°C)
PVC	.60	61326	50 PSI	50 PSI	35 PSI	20 PSI	10 PSI	-
Polypropylene	.40	61327	50 PSI	50 PSI	40 PSI	35 PSI	30 PSI	25 PSI

■ = Not recommended at these temperatures

3. Dimensions

Typical Configuration



B: Overall Length = Inches of Indication + C + X (See Table at Right)

C: Distance From Bottom of Mounting to Float Stop (Customer Specified):

- 3/8" minimum when float stop is used.
- 0" minimum when no float stop is used.

Calculating Length

To find Overall Length when Inches or Indication is known:

- Inches of Indication + C* + X = Overall Length

To find Maximum Inches of Indication when Overall Length is known:

- Overall Length - C* - X = Maximum Inches of Indication

*C dimension is determined by customer.

Float Factor – X

Float Part Number	X
61326	3.5" (88.9)
61327	3.5" (88.9)

Inch (mm)

4. Input/Output

For XM Series, no special output designation is necessary.

For XT Series, specify the desired signal conditioning by Part Number.

Additional information about GEMS signal conditioning modules is found on Page C-26.

Series	Input Voltage	Output Signal	Part Number	Electrical Termination	Compatible Mountings		
					Type A	Type B	Type C
XMP-800	10 to 30 VDC	Proportional Voltage	—	Lead Wires (3), #22 AWG, 24" (60.9 cm), Polymeric Jacket	●	●	●
XTP-800	8 to 24 VDC	0-5 VDC*	51965	Lead Wires, #22 AWG, 24" (60.9 cm), PTFE Jacket	●	●	●
	14 to 30 VDC	0-12 VDC*	51970		●	●	●
	8 to 24 VDC	0-5 VDC	154687			●	●
	15 to 30 VDC	0-12 VDC	154685	ABS Junction Box		●	●
	10 to 40 VDC	4-20 mA	116970			●	●
		4-20 mA	112300 ⚡	Panel Mount with Plug-in Base	●	●	●

* Stem mounted.

⚡ = Stock item

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