

## Large Size – Alloys

### XM/XT-36490 Flanged Transmitters Offer a Wide Range of Output Options

- ▶ Stainless Steel Construction
- ▶ 5 Signal Conditioning Options
- ▶ Lengths to 15 feet\*
- ▶ Custom Lengths 30 feet and over



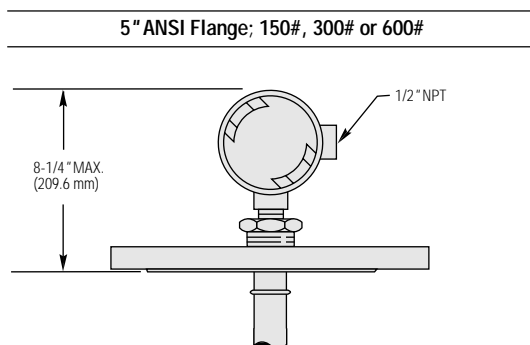
These rugged, flanged transmitters are designed for tanks up to 15 feet in depth. Heavy duty stems resist turbulence, and float options accommodate liquids with minimum specific gravity as low as 0.53. Standard resolution is 1/2 inch; higher resolutions are available on request.

\* Contact GEMS about solutions for deeper tanks.

#### Approvals:

- FM Approved, Explosion-Proof for lengths up to 25 feet.
- UL Approved, Explosion-Proof

#### 1. Mounting Type



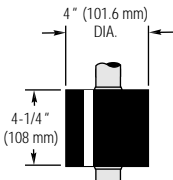
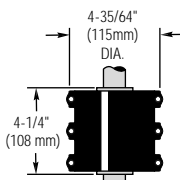
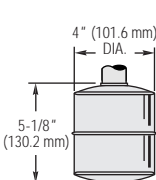
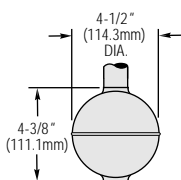
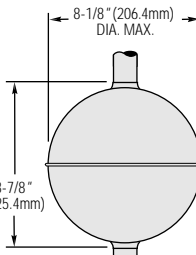
|                           |   |
|---------------------------|---|
| Stem Material*            | 304/316 Stainless Steel                 |
| Flange Mounting Material* | Carbon Steel or 304/316 Stainless Steel |
| Float Stop Material*      | 304/316 Stainless Steel                 |
| Overall Length, Max.      | 180" (457.2 cm)                         |

\* Materials of construction specified by customer.



## 2. Float Types

**NEW SPLIT FLOAT!**

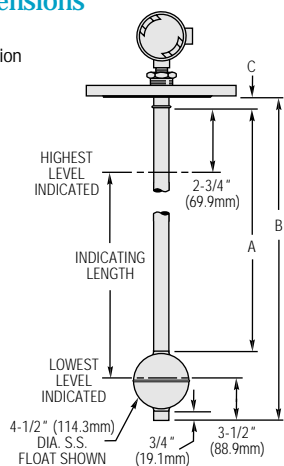
| Material                        | Buna N  | Buna N 2-Piece  | 4" Dia. Stainless Steel   | 4-1/2" Dia. Stainless Steel   | 8" Dia. Stainless Steel**   |
|---------------------------------|---|---|---|---|---|
| Float Dimensions                |  |  |  |  |  |
| Part Number                     | 32230   | 172166  | 125520  | 35560   | 38609   |
| Minimum Liquid Specific Gravity | 0.59  |   | 0.57  | 0.78  | 0.53  |
| Operating Temperature           | -40°F to +180°F (-40°C to +82.2°C)  |   | -40°F to +230°F (-40°C to +110°C)   |   |   |
| Operating Pressure, Max*        | 150 PSI (10 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



A: Float Travel = Indicating Length + 1-3/4" (44.5 mm) ± 1/4" (6.4 mm)

B: Overall Length (Values are based on Float Part Number selected):

32230, 172166, 35560 = Indicating Length + 6-3/4" (171.5 mm) + C ± 1/8" (3.2 mm)

125520 = Indicating Length + 7-3/4" (196.8 mm) + C ± 1/8" (3.2 mm)

38609 = Indicating Length + 11-3/8" (288.9 mm) + C ± 1/8" (3.2 mm)

C: Distance to Float Stop = 1/2" (12.7 mm) min. (specified by customer)

Notes:

1. Distances for highest and lowest level indicated are based on use in liquid with specific gravity of 1.0, and are approximate values.

2. Indicating length must be specified in whole inches.

## 4. Input/Output

For XM-36490 Series, no special output designation is necessary.

For XT-36490 Series, specify the desired signal conditioning by Part Number.

Additional information about GEMS signal conditioning modules is found on Page H-15.

| Series   | Input Voltage | Output Signal                   | Part Number | Electrical Termination        |
|----------|---------------|---------------------------------|-------------|-------------------------------|
| XM-36490 | 10 to 30 VDC  | Proportional Voltage            | -           | Junction Box                  |
| XT-36490 | 8 to 24 VDC   | 0-5 VDC                         | 52532       |                               |
|          | 15 to 30 VDC  | 0-12 VDC                        | 52533       |                               |
|          | 18 to 30 VDC* | 0-12 VDC with Hi and Low Alarms | 52541-1     |                               |
|          | 10 to 40 VDC  | 4-20 mA                         | 52550       | Panel Mount with Plug-In Base |
|          |               | 4-20 mA                         | 112300      |                               |

\* Consult factory for other alarm functions.

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**Photocopy This Form**

Use one form for each product type you are selecting.

Page# \_\_\_\_\_ Name \_\_\_\_\_

The OrderIt! Order Sheet (Z-4) must accompany this Check List. The Order Sheet is not required for quotes.

Company \_\_\_\_\_

Street \_\_\_\_\_

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

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

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

Quantity Needed \_\_\_\_\_ Date Required \_\_\_\_/\_\_\_\_/\_\_\_\_

Shipping Method: \_\_\_\_\_ Partial Accepted:  Yes  No

## Float Type Level Transmitters – Large Size (Pages H-11 to H-14)

### 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 \_\_\_\_\_ psig
3. **Temperature:** Minimum \_\_\_\_\_ °F      Maximum \_\_\_\_\_ °F
4. **Specific Gravity:** Minimum \_\_\_\_\_      Maximum \_\_\_\_\_
5. **Viscosity:** \_\_\_\_\_ SSU
6. **Tank Material:** \_\_\_\_\_
- Tank Depth:** \_\_\_\_\_
7. **Unit is Mounted In:**  Tank Top  Tank Bottom

### 1. Series (Page No.):

- XM-66400 (H-11)       XM-36490 (H-13)
- XT-36490 (H-13)

### 2. Mounting Type:

- 4" NPT (66400)
- Flange:  150#       300#       600# (36490 Series Only)
- Flange Size:  4"       5"       6"

### 5. Dimensions:

### 3. Material (Required only for 36490 Series):

- a. Stem:  304 Stainless Steel       316 Stainless Steel
- b. Flange:  304 Stainless Steel       316 Stainless Steel
- Carbon Steel

### 4. Float Type:

- Buna N-P/N 32230       Buna N-P/N 172166
- 4" Stainless Steel-P/N 125520       4-1/2" Stainless Steel-P/N 35560
- 8" Stainless-P/N 38609       PVC-P/N 40780 (36488 Series Only)

| Transmitter Series | Indicating Length<br>(Whole Inches) | + | C<br>Dimension | + | Constant           | = | Overall Length<br>(180" {457.2 cm}, Max.) |
|--------------------|-------------------------------------|---|----------------|---|--------------------|---|---|
| XM-66400           |                                     | + |                | + | 6-3/4" (171.5 mm)  | = |   |
| XM/XT-36490        |                                     |   |                |   |                    |   |   |
| Float Part Number: |                                     |   |                |   | 6-3/4" (171.5 mm)  |   |   |
| 32230, 172166      |                                     |   |                |   |                    |   |   |
| or 35560           |                                     | + |                | + | 7-3/4" (196.8 mm)  | = |   |
| 125520             |                                     | + |                | + |                    | = |   |
| 38609              |                                     | + |                | + | 11-3/8" (288.9 mm) | = |   |

Notes:

1. Indicating Length: Whole Inch Increments
2. C Dimension: \_\_\_\_\_ 1/2" {12.7} minimum;

### 6. Input/Output:

- a. Optional 24 VDC Power Supply:
- 115 VAC input       230 VAC input

- b. Signal Conditioners (and XT-36490):

P/N: \_\_\_\_\_

|   |  |
|---|--|
| <b>Signal Conditioners with Alarms—</b>                               |  |
| If Part Numbers 154091-1 or 52541-1 are selected, fill in data below. |  |
| 0-12 VDC<br>With<br>Hi and Low<br>Alarms                              | Low Alarm Setting (2% to 50% of full range): _____ |
|   | Hi Alarm Setting (50% to 98% of full range): _____ |

### Optional Receivers – Section J

- The designated receiver is planned to be used with the transmitter specified above.

Receiver Part Number:

\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|

Note: Spaces are not completely filled out in all cases.

Please contact GEMS Sensors Inc. for any configuration or special requirements not covered on this form. **800-321-6070**

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



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**FLOAT TYPE LEVEL TRANSMITTERS – LARGE SIZE**