



## Standard Alloy Versions – Standard Size

- ▶ Temperatures to 750°F (399°C)
- ▶ Pressures to 700 PSI (48 bar)

Rugged, welded construction makes these 2-1/2" (63.5 mm) diameter design, alloy SureSite Indicators dependable over a long service life indoors and out.

### 1. Mounting Configuration Types

To choose the best configuration for your application, focus on the process connections (connections where the liquid typically enters/leaves the SureSite).

	Type AA	Type BA	Type CA	Type DA
	Top and Bottom Process Connections	Side and Side Process Connections	Top and Side Process Connections	Side and Bottom Process Connections
<b>L</b> = Length of Visual Indication				
<b>Typical Lengths*</b>	C to C = L + 10-1/4" (260.4 mm)	C to C = L	C to C = L + 3-3/4" (95.2 mm)	C to C = L + 6-1/2" (165.1 mm)
<b>Flag Material</b>	Plastic (300°F/148.9°C) or Aluminum (750°F/399°C)			
<b>Length of Indication (Uninterrupted)</b>	240" (610 cm)			
<b>Minimum Specific Gravity</b>	0.39			

\* Dimensions vary due to connections, material and specific gravity.

Note: Additional materials, floats, connections and manufacturing techniques are available to extend lengths and operational capabilities. Please contact GEMS Sensors if the parameters above do not meet your requirements.

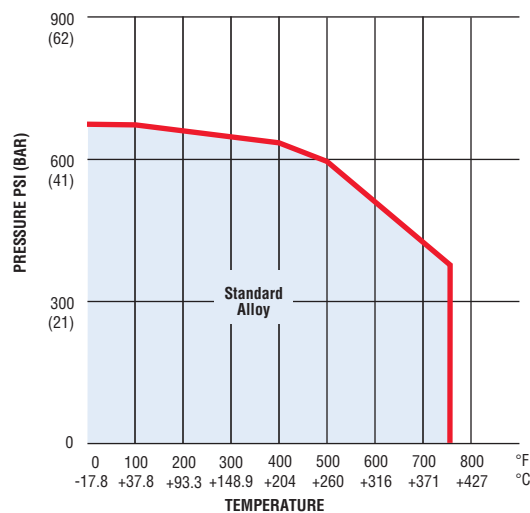
### 2. Material

Housing and Float: 316 Stainless Steel  
Pressure/Temperature performance parameters for alloy SureSite versions are specified in the chart at right. Please consult the factory with temperature/pressure requirements that fall outside the parameters shown here.

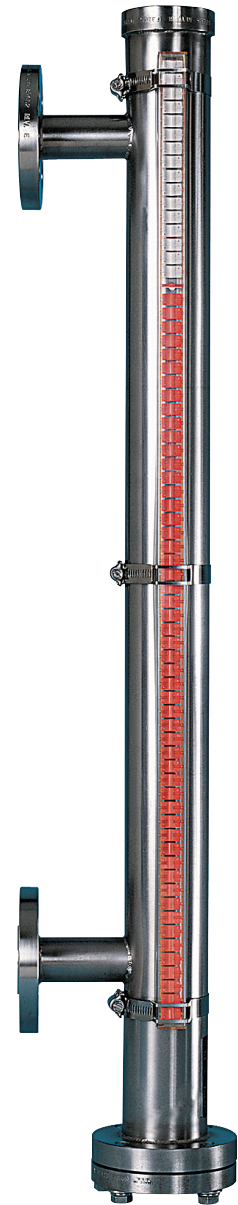
= Stock Material (Best economy and delivery).

Materials		Code
Housing	Float	
316L Stainless Steel	316L Stainless Steel	2
Carpenter 20	Hastelloy C276	3*
Hastelloy C276	Hastelloy C276	4*

\* Consult factory for pressure/temperature capabilities.



Note: SureSite Indicators are available for temperatures as low as -200°F (-129°C).



Type BA Shown

LEVEL INDICATORS – VISUAL

### 3. Connection Codes

(See complete descriptions below)

TOP	T	Blind		NPT				Flange	
		Fixed	Removable	Fixed		Removable		Fixed	Removable
				Female	Male	Female	Male		
		T1	T2	T3	T5	T6	T8	T9	T10

SIDE	Sa	SIDE	Sb	B	BOTTOM	B				

SIDE	Sa	SIDE	Sb	B	BOTTOM	B						

— Connection Codes and Materials background-shaded in this color are stocked by Gems. Select these connections where possible to obtain the most economical SureSite Indicators with a prompt 3-day delivery.

#### Connection Code Descriptions

Please provide all connections when completing the Order! Product Check List (located on the following page).

**Note:** Before selecting your connections, consider incorporating your vent and drain requirements.

#### T & B (Top and Bottom)

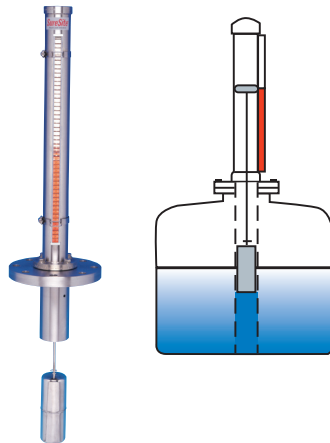
- T/B 1. Welded pipe cap
- T/B 2. Standard fixed flange/blind mating flange
- T/B 3. Welded pipe cap w/FNPT
- T/B 5. Welded pipe cap w/MNPT nipple
- T/B 6. Standard fixed flange/mating FNPT reducing flange
- T/B 8. Standard fixed flange/mating flange with MNPT nipple
- T/B 9. Welded pipe cap with ANSI flange
- T/B 10. Standard fixed flange/mating reducing flange spool

#### Sa & Sb Sides

- S1. No connection
- S2. MNPT nipple
- S3. FNPT coupling
- S4. ANSI flange

### Top Mount Units

When it's not practical to access the side of a tank for liquid monitoring, look to SureSite Top Mount Indicators for the solution. Please consult with the factory for these specially configured indicators **1-800-378-1600**.



### Accessories – Pages D-16 to D-18

Make more of your SureSite® Indicator with the productivity-enhancing accessories found at the end of this section.

- **Indicating Scales**  
Add graduations to your flag indication.
- **Switch Modules**  
Control pumps, valves, alarms, etc. Mount externally on housing for infinite positioning.
- **Continuous Output Transmitters**  
Signal conditioned for compatibility with most electronic instruments to 300°F (149°C).



**APPLICATIONS**  
ENGINEERING LTD

<http://www.appeng.co.uk>  
email: [info@appeng.co.uk](mailto:info@appeng.co.uk)

**16 HORSTED SQUARE, BELLBROOK INDUSTRIAL ESTATE,  
UCKFIELD, EAST SUSSEX, TN22 1QG, UK**

TEL: + 44 1825 764737  
FAX: + 44 1825 768330

## SureSite Indicators, Alloy Versions – Standard Size

### Process Conditions

This information is essential to the accurate and proper operation of your SureSite® Visual Level Indicators. Please complete fully and accurately.

1. **Pressure:** Operating \_\_\_\_\_ psig Maximum \_\_\_\_\_ psig  
 2. **Temperature:** Operating \_\_\_\_\_ °F Maximum \_\_\_\_\_ °F  
 3. **Liquid Media:** \_\_\_\_\_  
 4. **Specific Gravity @ Operating Condition:** \_\_\_\_\_  
 5. **Viscosity:** \_\_\_\_\_ SSU  
 6. **Application Location:**  Indoors  Outdoors

### Physical Configuration

#### 1. Mounting Configuration Types:

- Type AA  Type BA  Type CA  Type DA

#### 2. Housing and Float Material

- Code 2  Code 3  Code 4

#### 3. Connection Codes – Complete all 4 connection code lines. Check off NPT or Flange size where appropriate.

▼ Connection Code Number Goes Here. **Connection Code Numbers and their descriptions are on Page D-8.**

Top <b>T</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (RF) <input type="checkbox"/> 600# (RF) <input type="checkbox"/> Other _____
Side <b>Sa</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (RF) <input type="checkbox"/> 600# (RF) <input type="checkbox"/> Other _____
Side <b>Sb</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (RF) <input type="checkbox"/> 600# (RF) <input type="checkbox"/> Other _____
Bottom <b>B</b>	NPT	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 1" <input type="checkbox"/> 2" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# (RF) <input type="checkbox"/> 600# (RF) <input type="checkbox"/> Other _____

4. **Length of Visual Indication – L:** \_\_\_\_\_ inches (240", Max.).  
 Connection to Connection Dimension – C to C: \_\_\_\_\_ inches.

#### Special Instructions (Materials, Connections, etc.)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

#### 5. Flag Type

- Plastic flags available to 300°F (149°C).  
 Aluminum flags only for temperatures to 750°F (399°C).  
 Plastic (Orange and White)  Aluminum (Black and Silver)  
 Non-Standard; Specify: \_\_\_\_\_ consult factory.

### Accessories (Pages D-16 to D-18)

#### 1. Transmitters (Continuous Electrical Indication):

- Low Temperature – 300°F (149°C)  Explosion-Proof  
 High Temperature – 750°F (399°C)

#### 2. J-Box/Signal Conditioners Accessories:

- Terminal Strip  4-20 mA Output  
 0-12 VDC Output  0-5 VDC Output

#### 3. Power Supply:

- 115 VAC (Input) /24 VDC (Output)  
 230 VAC (Input) /24 VDC (Output)

#### 4. Switch Modules (Single Point): \_\_\_\_\_ Quantity (only if required)

- a.  SPST  SPDT  DPDT 120 VAC  DPDT 24 VDC  
 b.  Standard – 300°F (149°C)  Explosion Proof  
 High Temperature – 750°F (399°C)

#### 5. Indicating Scales:

- Feet and Inches  Inches  Metric  Blank  
 Custom Graduations; specify: \_\_\_\_\_