

## Alloy Versions—Miniature Size

- ▶ Lengths to over 20 feet (6.1 meters)
- ▶ 316 Stainless Steel construction
- ▶ Pressures to 400 PSI (27 bar) – Temperature to 400°F (204°C)

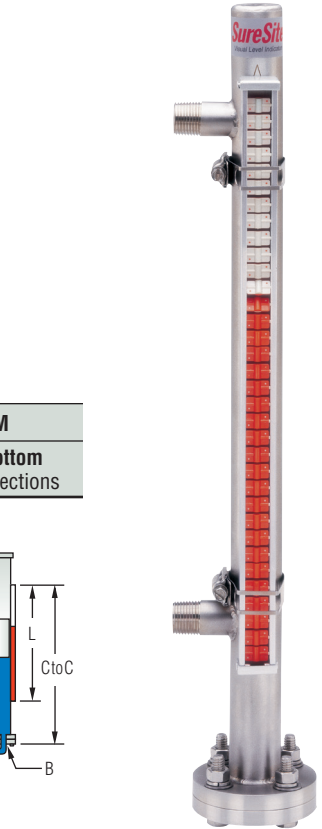
Use these Mini SureSite Indicators where space is tight—they feature a diameter of only 1-1/4"! They can replace existing, antiquated sightglasses for excellent external, visual liquid level indication. Mini SureSite Indicators are ideal for use with clean, low viscosity liquids.

### Typical Applications

- Pharmaceuticals • Medical Equipment • Food and Beverages
- Semiconductor Manufacturing • Boilers

### 1. Mounting Configuration Types

	Type AM	Type BM	Type CM	Type DM
	Top and Bottom Process Connections	Side and Side Process Connections	Top and Side Process Connections	Side and Bottom Process Connections
L = Length of Visual Indication				
Typical Lengths*	C to C = L + 7.72" (196 mm)	C to C = L	C to C = L + 3" (76 mm)	C to C = L + 5" (127 mm)
Flag Material	Plastic (300°F/148.9°C) or Aluminum (400°F/204°C)			
Length of Indication (Uninterrupted)	240" (610 cm)			

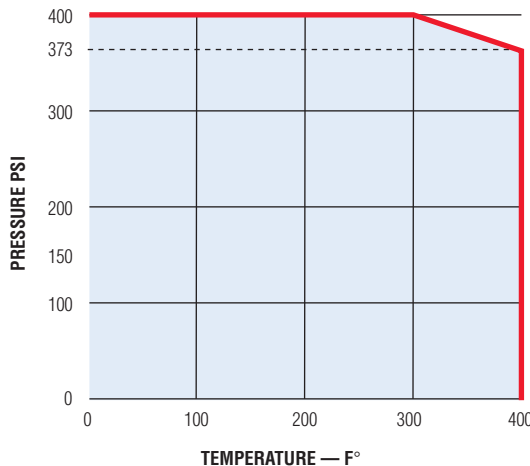


LEVEL INDICATORS – VISUAL

\*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 if the parameters above do not meet your requirements.

### Miniature SureSite Performance

Gems configures Miniature SureSite Indicators, using various materials and fittings, to perform within the Pressure/Temperature parameters specified in the chart at right. Consult the factory with pressure/temperature requirements that fall outside the parameters shown here.



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

**2. Connection Codes**

(See complete descriptions below)

	Blind	NPT				Flange		Weld		
		Fixed		Removable		Fixed	Removable	Socket Butt	Removable Butt	
		Female	Male	Female	Male					
<b>Standard Connections</b>	T1	T10	T2	T3	T11	T12	T19	T20	T18	T13
<b>Sanitary Connections</b>							T7	T8		

	Blind	NPT		Flange	Sanitary Flange	Buttweld Nipple
		Male	Female			
S1	S2	S3	S4	S5	S6	

	Blind	NPT				Flange		Weld		
		Fixed		Removable		Fixed	Removable	Socket Butt	Removable Butt	
		Female	Male	Female	Male					
<b>Standard Connections</b>	B1	B10	B2	B3	B11	B12	B19	B20	B18	B13
<b>Sanitary Connections</b>							B7	B8		

— 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.

Note: Gems recommends a removable top and/or bottom connection for float access.

**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 cap
- T/B 2. Welded cap with FNPT
- T/B 3. Welded cap with MNPT
- T/B 7. Sanitary flange
- T/B 8. Sanitary flange with mating blind flange
- T/B 10. Standard fixed flange/mating blind flange
- T/B 11. Standard fixed flange/mating FNPT reducing flange
- T/B 12. Standard fixed flange/mating flange with MNPT nipple
- T/B 13. Standard fixed flange/mating flange with butt weld nipple
- T/B 18. Welded cap with butt weld nipple
- T/B 19. Welded cap with ANSI flange
- T/B 20. Standard fixed flange/mating reducing flange spool with ANSI flange

- Sa & Sb (Sides)**
- S1. No connection
  - S2. MNPT nipple
  - S3. FNPT coupling
  - S4. ANSI flange
  - S5. Sanitary flange
  - S6. Buttweld nipple

**Performance Notes:**

1. As an option **either** the Switch Modules or Transmitter can be used on a Miniature SureSite Indicator - **Not Both**.
2. Minimum specific gravity is 0.7.
3. Standard O-ring seal material is Viton®. Others available upon request.
4. Electropolished Outer Diameter (OD) and/or Inner Diameter (ID) housings available upon request.

**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**  
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## SureSite Indicators, Alloy Versions – Miniature 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 AM  Type BM  Type CM  Type DM

#### 2. 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-5.**

<b>Top T</b>	NPT or Weld	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# RF <input type="checkbox"/> 300# RF <input type="checkbox"/> Other _____
<b>Side Sa</b>	NPT or Weld	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# RF <input type="checkbox"/> 300# RF <input type="checkbox"/> Other _____
<b>Side Sb</b>	NPT or Weld	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# RF <input type="checkbox"/> 300# RF <input type="checkbox"/> Other _____
<b>Bottom B</b>	NPT or Weld	Flange	
	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> Other _____	<input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1" <input type="checkbox"/> Other _____	<input type="checkbox"/> 150# RF <input type="checkbox"/> 300# RF <input type="checkbox"/> Other _____

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

#### 4. 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.

#### 5. O-Ring Material:

- Viton® (Standard)  Ethylene Propylene  
 Other \_\_\_\_\_

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

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

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

1. **Switch Modules** (Single Point): \_\_\_\_\_ Quantity  
 a.  SPST  SPDT  DPDT 120 VAC  DPDT 24 VDC  
 b.  Standard – 300°F  High Temperature  
 Explosion Proof
2. **Indicating Scales:**  
 Feet and Inches  Inches  Metric  Blank  
 Custom Graduations; specify: \_\_\_\_\_
3. **Continuous Transmitter:**  
 Output:  0-5 VDC  0-12 VDC  4-20 mA  
 J-Box:  Standard  Explosion Proof

ORDER IT!