LED SURESITE® LEVEL INDICATORS

LED Transmitter Versions – Miniature Size

- LED indicators ideal in low or no ambient light
- Integral transmitter with choice of signal conditioned output
- Lengths to 10 feet (3 meters)
- Pressures to 400 PSI (27 bar) Temperature to 300°F (149°C)

These Mini SureSite Indicators excel where zero and low ambient light make visual indicators difficult to read. These mini indicators feature all the benefits of a SureSite, like safe and durable stainless steel process fluid containment, while combining a continuous output transmitter with a bright LED channel.

The LED indicator assembly integrates a continuous level transmitter reducing overall footprint. A variety of signal conditioners provide the output you require. Forget the flashlights and squinting required to view antiquated sightglasses.

Typical Applications

- Pharmaceuticals
 Medical Equipment
 Food and Beverages
- Marine
 Rail
 Boilers

Specifications

specifications	
Indication Length	5" to 120" (13 to 305 cm) in 0.5" (13 mm) increments
Media	Waters, Coolants, Light Oils, Diesel, Hydraulics
Specific Gravity	Minimum 0.8 SG to 1.2 SG
Materials	
Chamber Housing	316/316L Stainless Steel
Float	316/316L Stainless Steel
Shroud	Polycarbonate
O-Ring (Wetted)	Viton [®] , unless otherwise specified
J-Box Enclosure	Die cast Aluminum
Reliability and Durability	Expected 10 year service life
Performance	
Resolution	3/8″ (9.5 mm)
Accuracy	±1/2" (13 mm)
Output Signal	4-20 mA to within ±3% of full scale
Temperature Ranges	
Process	-40°F to +300°F (-40°C to +149°C)
Ambient	-40°F to +160°F (-40°C to +71°C)
Operating Pressure	Vacuum to 400 psig (27.6 bar)
Environmental	Enclosure: NEMA 4X
	IP65 (Water Resistant)
Input Power	20 to 28VDC, @100mA. Consult Factory for other voltages
Outputs	4-20 mA continuous current loop (3 wire)
	0-5 V continuous (3 wire)
	0-10 V continuous (3 wire)
Mechanical Interface	Custom configured for tank (per mini SureSite offering),
	1/2" NPT to junction box
Mounting Orientation	
Unit Positions	AM-L, BM-L, CM-L, DM-L
Shroud Position	See Selection Guide; Step 2 for Codes
Calibration	Field Adjustment Null and Span/Factory Calibrated



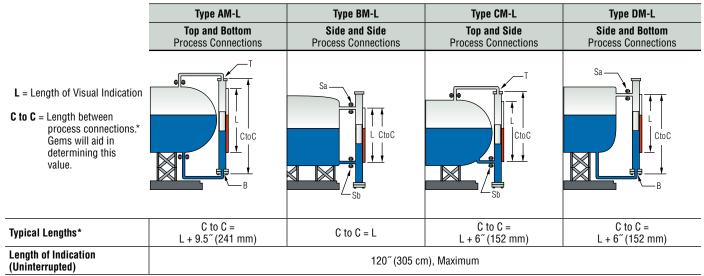


1. Mounting Configuration Type

ORDERIT!

Ordering is Easy! See Page D-22. Easy online ordering too!

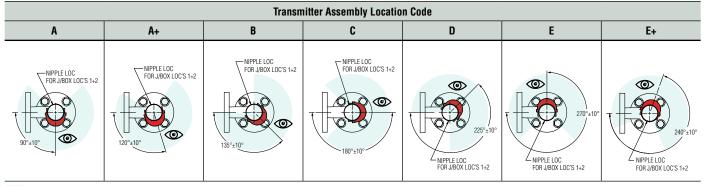
Based on process connection locations.



Formula provided is for approximation only. Final dimensions will vary due to connections type, position, cable or junction box location, and specific gravity of process liquid. Gems will confirm final dimensions before manufacturing.

2. LED Transmitter Assembly Location

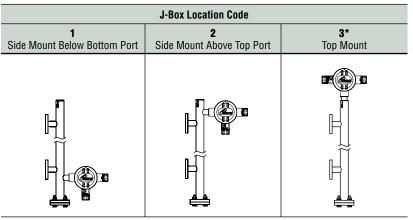
Position relative to process connection location. All illustration views are from the top. Codes with "+" indicate views when 3/4" side ports are used.



Approximate angle of view - 270°

3. J-Box Location

Drawings are typical, and for reference only. Final, specific locations are determined at time of manufacture.



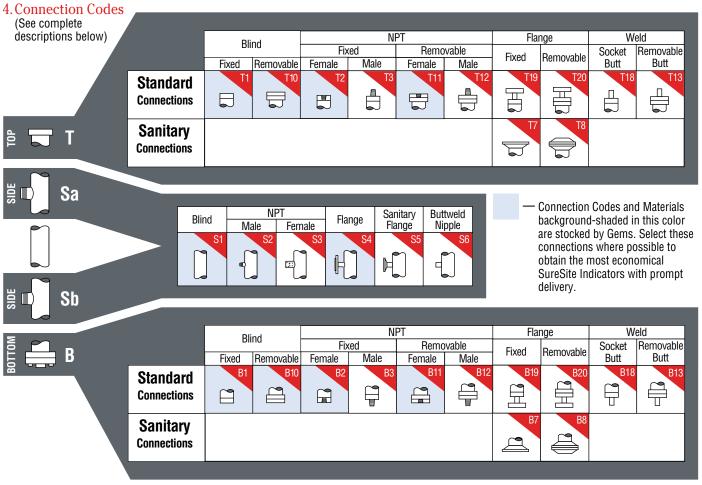
Requires a Blind Fixed Top Connection. See Connection Code T1 in the chart on next page.

LED Assembly Cable Egress

For J-Box Location 1, LED Transmitter Assembly cable will egress from the bottom of the assembly. For J-Box Locations 2 and 3, the cable will egress from the top of the assembly.



LED SURESITE[®] LEVEL INDICATORS



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

Connection Code Descriptions

Please provide all connections when completing the **OrderIt!** 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

5. Signal Conditioner Assemblies

Gems signal conditioners provide outputs for direct connection to a wide range of instrumentation. They are ideal for large, multi-tank complexes. Units with 4-20 mA outputs are particularly well suited for instrumentation control loops. Consult LED SureSite Installation, Operation and Maintenance bulletin.

- 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



FAXIT!	This is a □ Request for a Quote □ Order P.O.#	Name
267-673-8118	Quantity Needed	Company Street
Photocopy This Form Use one form for each product type you are selecting. This form may also be completed online at gemssensors.com for RFQ.	Date Required/ Shipping Method: Partials Accepted:	City State Zip Phone () Fax ()
-		Email

LED SureSite Indicator/Transmitter, Alloy Versions – Miniature Size LED Process Conditions

This information is essential to the accurate and proper operation of your SureSite $^{\circ}$ Visual Level Indicators. Please complete fully and accurately.

1. Pressure: Operating	_psig	Maximum	psig
2. Temperature: Operating	°F	Maximum	°F
3. Liquid Media:			

Physical Configuration

MINIATURE LED

SureSite[®] Visual Indicators –

. Mounting C	Configuration	Types:	
🗆 Type AM-L	🗆 Type BM-L	🗆 Type CM-L	\Box Type DM-L
Length of Visu	al Indication – L:	inches (120″, Max.)
Connection to	Connection – C t	o C: inch	nes (calculated)

4. Specific Gravity @ Operating Condition:	
5. Viscosity: SSU	
6. Application Location: □ Indoors □ Outdoor	ors

2. LED Transmitter Assembly Location:

1/2" Side Ports: 🗆 A		\Box C	\Box D	🗆 E
3/4″ Side Ports: □ A+	\Box C	□ E+		
3. J-Box Location:				

4. 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-21.

)# RF
)# RF
0# RF
)# RF

5. Supply/Conditioner:

 Supply Voltage:
 Image:
 5 VDC
 Image:
 24 VDC

 Output:
 Image:
 4-20mA
 Image:
 0-5 VDC
 Image:
 0-10 VDC

6. O-Ring Material:

□ Viton[®] (Standard) □ Ethylene Propylene □ Other _____

Special Instructions (Materials, Connections, etc.)

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

Quote \$ _____

Date Quoted __/__/__

Special Instructions (Materials, Connections, etc.)

