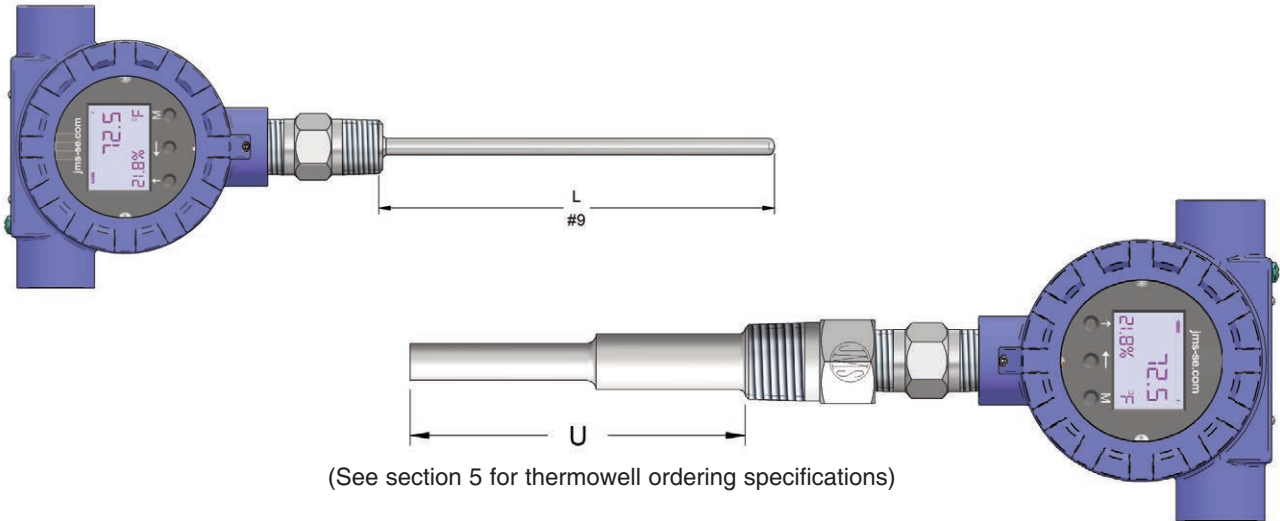


# INTEGRAL TRANSMITTERS WITH HOUSING AND INDICATOR



The 888 series specified with these ordering symbols include a temperature sensor assembly with an integral transmitter and indicator. The sensors are 316 stainless steel and 1/4" outside diameter. Thermocouples have ungrounded junctions. RTD's have a 3 wire configuration and a 0.00385 alpha. The most popular assembly features a spring-loaded fitting with a thermowell.

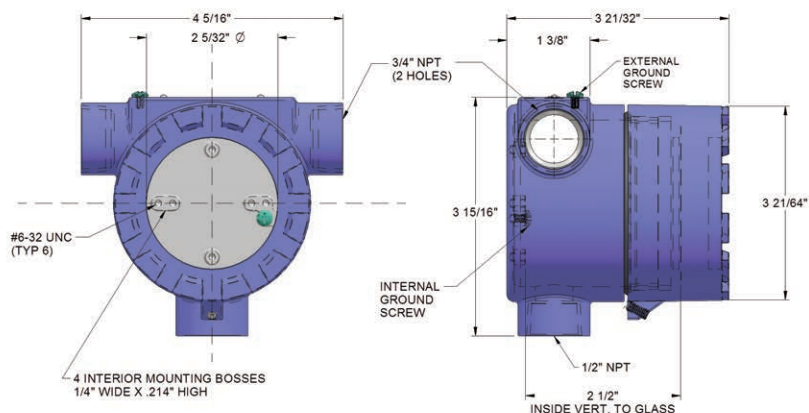
|          |   |   |
|----------|---|---|
| #1       | DESCRIPTION [18]  |   |
| 888      | Transmitter (Includes housing and digital indicator). (Specifications for GS & GV housing styles see illustrations on page 8-2) |   |
| #2       | TYPE OF TRANSMITTER [8-18]  |   |
| H        | Isolated (Standard)   | *FM intrinsically safe<br>class I, Div. 1&2, Groups A,B,C,D,<br>class I, zone 0, AExia IIC T6 |
| N        | Non-isolated  |   |
| I        | Hart Protocol   |   |
| E        | Intrinsically safe*   |   |
| D        | Intrinsically safe/Hart Protocol*   |   |
| X        | Other, specify  |   |
| #3       | SINGLE INPUT  |   |
| J        | Iron/Constantan thermocouple  |   |
| T        | Copper/Constantan thermocouple  |   |
| K        | Chromel/Alumel thermocouple   |   |
| E        | Chromel/Constantan thermocouple   |   |
| S        | Platinum 10% Rhodium/Pure Platinum thermocouple   |   |
| R        | Platinum 13% Rhodium/Pure Platinum thermocouple   |   |
| B        | Platinum 6% Rhodium/Platinum 30% Rhodium thermocouple   |   |
| N        | Nicrosil/Nisil thermocouple   |   |
| C        | Tungsten 5% Rhenium/Tungsten 26% Rhenium thermocouple   |   |
| 3        | 3 wire, 100Ω, Platinum, α=.00385, RTD   |   |
| 4        | 4 wire, 100Ω, Platinum, α=.00385, RTD   |   |
| X        | Other, specify  |   |
| #4       | TEMPERATURE RANGE   |   |
| _ to _°C | List desired temperature span   | <input type="checkbox"/> Other, specify   |
| _ to _°F | List desired temperature span   |   |
| Z        | N/A   |   |
| #5       | SIGNAL OUTPUT   |   |
| F        | Fieldbus  | <input type="checkbox"/> Other, specify   |
| P        | Profibus  |   |
| 4        | 4 to 20 mA  |   |
| #6       | INDICATION  |   |
| D        | Digital, 4-20 mA (Standard)   |   |
| Z        | No indication   |   |

[ ] Brackets indicate page numbers where additional helpful information can be found in technical catalog. Now available online at [www.JMS-SE.com/TechnicalCatalog](http://www.JMS-SE.com/TechnicalCatalog)

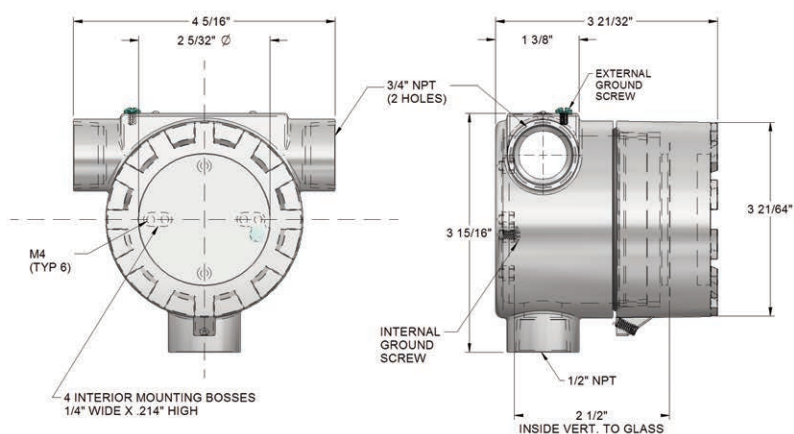
**Note:** Many other transmitter options are available.  
(see pages 1-1 & 1-2 for TC)  
(see pages 3-1 & 3-2 for RTD)  
(see page 8-3 for stand alone transmitters)

# INTEGRAL TRANSMITTERS WITH HOUSING AND INDICATOR

**GA** Housing Style (#7)  
Detailed View



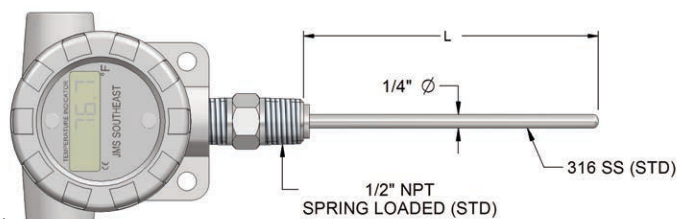
**GS** Housing Style (#7)  
Detailed View



|    |   |
|----|---|
| #7 | HOUSING   |
| GS | Explosion proof, NEMA 4X, ATEX/IECEX, FM/CSA, 316SS, threaded cap with glass viewing window     |
| GA | Explosion proof, NEMA 4X, ATEX/IECEX, FM/CSA, Aluminium, threaded cap with glass viewing window |
| X  | Other, specify <b>NOTE: Different housing options available. (see section 6)</b>                |
| #8 | FITTING TYPE [6-13]   |
| S  | Spring-loaded 1/2"x1/2" (NPT)   |
| W  | Welded 1/2"x1/2" (NPT)  |
| N* | Nipple-Union-Nipple 1/2"x1/2" (NPT)   |
| X* | Other, specify <b>*See page 1-3 for extension assembly configurations</b>                       |
| Z  | N/A   |
| #9 | IMMERSION LENGTH IN INCHES (L)  |
| 4  | 4"  |
| 6  | 6"  |
| 9  | 9"  |
| 12 | 12"   |
| X  | Other, specify  |
| Z  | Not applicable/probe not included (example: field mounted transmitter)                          |



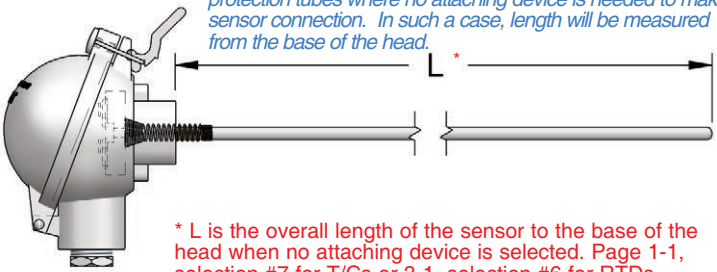
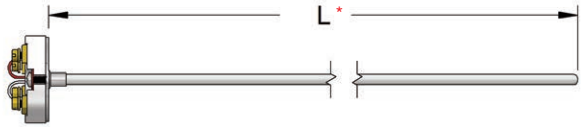
**Polycarbonate  
General Purpose  
Enclosure with  
Battery Powered  
Digital Display**



To order, simply specify JMS part #: DWG21551- followed by the length(L).  
(Example: DWG21551-12 for a 12" immersion)

RTD element  
(Local indication only)

# ADDITIONAL TERMINATIONS

| COLD END TERMINATION [SEE SECTION 6]   |   | Choose as many as applicable (JMS part number prefixes are shown in parenthesis) |  |
|--|---|--|--|
| <b>Connectors</b>  |   |  |  |
| <p style="text-align: center;"><b>Plugs</b></p> <p>B Miniature plug (6A1B)<br/>           BH Miniature high temperature plug (6A2B) &lt;800°F<br/>           C Standard plug (6A1C)<br/>           F Standard high temperature plug (6A2C) &lt;800°F<br/>           WM Microphone style plug (6DA)<br/>           WA Solid pin plug, heavy duty (6A3C)<br/>           WC Jab in plug (6A4C)<br/>           WE Ultra high temperature plug, glazed (6A5C) &lt;1200°F<br/>           WH Ultra high temperature plug, unglazed (6A7C) &lt;1200°F<br/>           WJ Low noise plug (6A6C) &lt;425°F<br/>           WL DIN-IEC microphone plug (6DB)<br/>           V Molded/hermetic plug (6DC)<br/>           Y M12 Male connector (6DY)</p>  | <p style="text-align: center;"><b>Jacks</b></p> <p>D Miniature jack (6A1D)<br/>           DH Miniature high temperature jack (6A2D) &lt;800°F<br/>           E Standard jack (6A1E)<br/>           G Standard high temperature jack (6A2E) &lt;800°F<br/>           WF Microphone style jack (6DA)<br/>           WB Solid pin jack, heavy duty (6A3E)<br/>           WD Jab in jack (6A4E)<br/>           WG Ultra high temperature jack, glazed (6A5E) &lt;1200°F<br/>           WI Ultra high temperature jack, unglazed (6A7E) &lt;1200°F<br/>           WK Low noise jack (6A6E) &lt;425°F<br/>           WN DIN-IEC microphone style jack (6DB)<br/>           VF Molded/hermetic jack (6DC)<br/>           YF M12 Female connector (6DY)</p> |  |  |
| <b>Heads</b> [6-1] Visit <a href="http://www.JMS-SE.com/headspecs">www.JMS-SE.com/headspecs</a>  |   |  |  |
| <p style="text-align: center;"><b>Explosion Proof</b></p> <p>I Aluminum, NEMA 4X, FM, CSA, IP66 (6IA/6B4)<br/>           J 316 stainless steel, NEMA 4X, FM, CSA, IP66 (6ISS/6B4)<br/>           P Aluminum, NEMA 4X, FM, CSA, ATEX, IECEx, IP66 (6IAIEC/6B4)<br/>           U 316 stainless steel, NEMA 4X, FM, CSA, ATEX, IECEx, IP66 (6ISSATEX/6B4)<br/>           SI Cast Iron, NEMA 3, 4, UL, CSA (6I/6PT)<br/>           GA Aluminum, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP66 (688A1)<br/>           GS 316SS, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP66 (688S1)</p> <p style="text-align: center;"><b>General Purpose</b></p> <p>L Aluminum w/ hinged cover (6L/6B4)<br/>           M Aluminum w/ screw cover &amp; chain (6M/6B4)<br/>           R Aluminum w/ hinged high dome cover (6R/6B4)<br/>           N Cast Iron w/ screw cover (6N/6B4)<br/>           Q Black Noryl plastic (6Q/6B4)<br/>           SS 316 stainless steel w/ screw cover &amp; chain (6SS/6B4)<br/>           WP White plastic, screw cover, Sanitary (6WP, 6B4)<br/>           SB Nickel plated, cylinder style, 1/4" NPT (6S250)<br/>           SD Nickel plated, cylinder style, 1/8" NPT (6S125)<br/>           SC Stainless steel, socket cap style<br/>           ST Molded plastic, mini head, 1/4" NPT, &lt; 350F (6T)<br/>           SU Molded plastic, mini head, 1/4" NPT, &lt; 800F (6U)</p> |  <p style="color: blue; font-style: italic;">Some applications may have pre-existing threaded pipes or protection tubes where no attaching device is needed to make sensor connection. In such a case, length will be measured from the base of the head.</p> <p style="color: red; font-weight: bold;">* L is the overall length of the sensor to the base of the head when no attaching device is selected. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.</p>   |  |  |
| <b>Transmitters</b>  |   |  |  |
| <p>8H Isolated transmitter<br/>           8N Non-isolated transmitter<br/>           8I Hart Protocol<br/>           8E Intrinsically safe<br/>           8D Hart/Intrinsically safe<br/>           8M Integral transmitter (see page 3-5) <b>RTDs ONLY</b></p>  | <p style="color: red; font-weight: bold;">Notes:</p> <ul style="list-style-type: none"> <li>- Add span range after transmitter selection. Example: 8H(0-200C).</li> <li>- Transmitter output = 4 - 20 mA. (See section 8 for other options).</li> </ul>   |  |  |
| <b>Other</b>   |   |  |  |
| <p>A Bare ends<br/>           K Spade lugs (6SL)<br/>           RL Ring lugs (6RL)<br/>           O Open ceramic terminal block, Brass screw terminal (6B)<br/>           OA Open Bakelite terminal block, Nickel plated screw terminal (6BB)<br/>           OB Open ceramic terminal block for sensors with bayonet style connection, Brass screw terminal (6B or 6C/6DMD)<br/>           OG Ceramic terminal block, Brass screw terminal (6G)<br/>           OP Pluggable Polyimide terminal block, Nickel plated screw terminal (6P1)<br/>           OS Open ceramic terminal block, Nickel plated solder terminal (6C)<br/>           CG Cord connector/grip, Aluminum 1/2" NPT (6CC)<br/>           PS Ship straight<br/>           X Other, specify</p>  |  <p style="color: red; font-weight: bold;">* L is the overall length of the sensor to the base of the terminal block mounting plate when open terminal block cold end termination is selected without a fixed attaching device. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.</p>  |  |  |