The Temperature Transmitter Type 9182 is an associated apparatus as well as a nonincendive apparatus for installation in non-hazardous or Class I, Division 2 or Zone 2 Hazardous (Classified) Locations and provides intrinsically safe connections for one (or two) field devices located in Class I, II, III, Division 1, Group A-G or Zone 0 [AEx ia] Group IIC, hazardous locations according to NEC Article 504/505 as listed below.

Temperature Transmitter Type 9182/a0-5d-1f
a = numeral 1 or 2 for number of channels
d = numeral 0, 1, 3 or 9 for analog output
f = numeral 1, 2, 3 or 4 for limit contact and SIL options

### Entity parameters for wiring configurations are as follows:

<table>
<thead>
<tr>
<th>V_{OC} [V]</th>
<th>I_{SC} [mA]</th>
<th>P_{O} [mW]</th>
<th>L_{o} Zone I, DIV 1, A,B</th>
<th>L_{o} Zone I, DIV 1, C-G</th>
<th>C_{o} Zone 0, GP IIC</th>
<th>C_{o} Zone 0, GP IIB</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5</td>
<td>19.7</td>
<td>32</td>
<td>90 mH</td>
<td>330 mH</td>
<td>25 µF</td>
<td>570 µF</td>
</tr>
</tbody>
</table>

### Notes:

1. For Connections refer to chapter Commissioning of Operating Instruction ID-No. 91 820 01 31 0.
2. Intrinsically safe apparatus may be switches, thermocouples, LEDs, RTDs or an FM Approved System or Entity device connected in accordance with the manufacturer's installation instructions.
3. For Entity use the appropriate parameters to ensure the following:
   \[ V_i \text{ or } V_{OC} \leq V_{max} \]
   \[ C_i, C_{o} \geq C_i + C_{leads} \]
   \[ P_{O} \leq P_{i} \]
   \[ I_i \text{ or } I_{SC} \leq I_{max} \]
   \[ L_i, L_{o} \geq L_i + L_{leads} \]
4. Electrical apparatus connected to an intrinsically safe system should not use or generate voltages > 250 V (U_{max}).
5. Installation in Canada should be in accordance with Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
6. Use a general purpose enclosure meeting the requirements of IEC 61010-1 for use in non-hazardous or Class I, Division 2, Hazardous (Classified) Locations.
7. Use an FM Approved Dust-ignition proof enclosure appropriate for environmental protection in Class II, Division 1, Groups E, F and G; and Class III, Hazardous (Classified) Locations.
8. These modules are to be mounted on DIN rail, DIN rail with pac-Bus (type 9194) or pac-Carrier (type 9195). The I.S. field wiring in any case is connected to the ISpac device terminals.
9. Ambient temperature: -20°C … +70°C (any mounting position)

**WARNING:** Do not disconnect equipment when a flammable or combustible atmosphere is present.

**AVERTISSEMENT:** Ne pas débrancher l’équipement en présence d’atmosphère inflamable ou combustible.