

**Connection Diagram of Iotron™ pH & ORP Sensors  
with Integral 6-wire Differential Type Preamplifiers to  
ECD Model T28 pH & ORP Explosion-Proof Transmitters**

<b>ASTI Cable Color Coding</b>	<b>Instrument Terminal Value</b>	<b>T28 Sensor Terminal Number</b>
<b>White</b>	<b>pH/ORP Sensor <i>mV</i> Signal</b>	<b>1</b>
<b>Red &amp; Yellow</b>	<b>Common/Reference (Red) &amp; 3K Ohm Balco TC (Yellow)</b>	<b>2</b>
<b>Green</b>	<b>+V Power (Green)</b>	<b>3</b>
<b>Black</b>	<b>-V Power (Black)</b>	<b>4</b>
<b>Blue</b>	<b>3K Ohm Balco TC (Blue)</b>	<b>5</b>

**Note 1: Care should be taken when wiring the 6-wire differential type preamplifiers to avoid damage from static discharge. Best practice is to touch the metal transmitter enclosure or some other metallic object that is connected to earth ground prior to wiring in the sensor.**

**Note 2: The maximum recommended cable length between the sensor with 6-wire differential preamplifier for use with T21 & T28 ECD pH/ORP transmitters is 330 feet (100 meters).**