Connection Diagram of Iotron™ Sensors without Preamplifiers to Uniloc-Rosemount 1055 Single & Dual Channel pH/ORP Analyzers

## For Input Channel 1

| Cable Color Coding | Terminal Name | Terminal Number | Terminal Block |
|---|---|---|---|
| Back | RTD IN 1 | 4 | TB3 |
| Black | RTD SENSE 1 | 5 | TB3 |
| Red | REFERENCE IN 1 | 6 | TB4 |
| Clear | pH/ORP IN 1 | 1 | TB4 |

**Note 1: A jumper is required between Terminal Numbers 4 & 6 on Terminal Block TB4. This will disable any diagnostics for reference impedance in the analyzer. A second jumper is required between Terminal Numbers 5 & 6 on Terminal Block TB3. This disables the automatic cable length compensation for the 100 Ohm Platinum Temperature Element (temperature must be calibrated manually in the transmitter, if required). No manual calibration of the temperature element should be required for cable lengths of less than 16 feet**.

## For Input Channel 2 (If 1055 is a Dual Channel pH/ORP Analyzer Only)

| Cable Color Coding | Terminal Name | Terminal Number | Terminal Block |
|---|---|---|---|
| Back | RTD IN 2 | 9 | TB3 |
| Black | RTD SENSE 2 | 8 | TB3 |
| Red | REFERENCE IN 2 | 6 | TB5 |
| Clear | pH/ORP IN 2 | 1 | TB5 |

**Note 2: A jumper is required between Terminal Numbers 4 & 6 on Terminal Block TB5. This will disable any diagnostics for reference impedance in the analyzer. A second jumper is required between Terminal Numbers 7 & 8 on Terminal Block TB3. This disables the automatic cable length compensation for the 100 Ohm Platinum Temperature Element (temperature must be calibrated manually in the transmitter, if required). No manual calibration of the temperature element should be required for cable lengths of less than 16 feet.**