



Connection Diagram of Iotron™ Sensors without Preamplifiers to External Non-Differential Iotron™ Preamplifiers to Uniloc-Rosemount 54e Single Channel pH/ORP/ISE Analyzers

Connection from External Preamp to Terminal Block in Junction Box

<u>Cable Color Coding</u>	<u>Instrument Terminal Name</u>	<u>Terminal Number</u>
Violet	Signal Input (Measure)	1
Brown	Reference	2
Yellow	TC Input	3
Blue	TC Input	4

Connection from Iotron™ Sensor to Terminal Block in Junction Box

<u>Cable Color Coding</u>	<u>Instrument Terminal Name</u>	<u>Terminal Number</u>
Clear	Signal Input (Measure)	1
Red	Reference	2
Black	TC Input	3
Black	TC Input	4

Connection from External Preamp to Terminal Block in Transmitter

<u>Cable Color Coding</u>	<u>Instrument Terminal Name</u>	<u>Uniloc Terminal Number (on Terminal Block TB1)</u>
Purple	TC	3
Blue	TC	4
Yellow	TC	5
Red	Reference	7
Red	Reference	8
White	mV in	10
Black	- 5 VDC	11
Green	+ 5 VDC	12

Note 1: The temperature compensator is 100 Ohm Pt RTD

Note 2: Slide switch S1 toward the edge of the circuit board to select external preamplifier

Note 3: The preamplifier does not support diagnostic features, if any.