



Connection Diagram of Iotron™ Sensors with Preamplifiers to  
Rosemount 3081 / 4081 / 5081 / 81 / 54 / 54epH Analyzers

**Connection from Iotron™ Sensor to Terminal Block in Rosemount Transmitter**

<u>Iotron™</u> <u>Cable Color Coding</u>	<u>Rosemount</u> <u>Instrument Terminal Name</u>	<u>Mettler Toledo</u> <u>Terminal Number</u>
Purple	TC Return	3
Blue	TC Sense	4
Yellow	TC Input	5
Red	Reference	7
Red	Reference	8
White	mV (Signal) In	10
Black	Power (- 5V)	11
Green	Power (+ 5V)	12

Note 1:

The temperature compensator is 100 Ohm or 1000 Ohm Pt RTD. To measure which Platinum temperature compensation element your sensor has, simply use a multimeter and measure the resistance (in Ohms) between the Blue and Yellow leads. For a Pt100 the nominal value is ~110 Ohms at 25 degrees Celsius (77 F) and for a Pt1000 the nominal value is ~1100 Ohms at 25 degrees Celsius (77F).

Note 2:

Set Jumper to External Preamplifier Setting

Note 3:

The preamplifier does not support diagnostic features (if any).