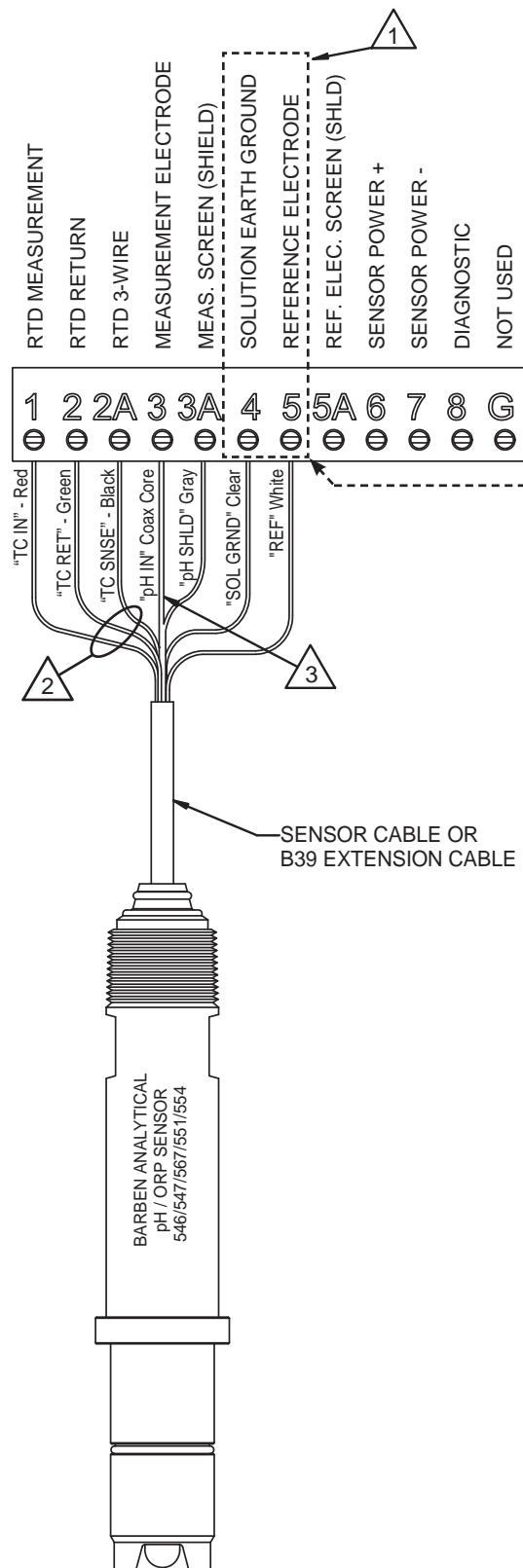


BARBEN SENSOR: "E" TERMINATION

e.g. (B-V-546-X-XX-X-X-X-E-XX)



"IMPORTANT WARNINGS"



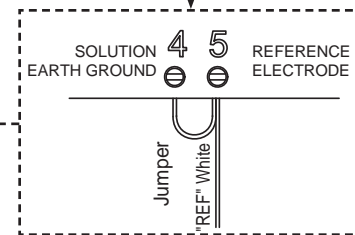
THE WIRING SHOWS A SENSOR WITH A SOLUTION GROUND. THIS OPTION IS DESIGNATED WITH WITH "GT", "UT" OR "LT" IN THE MODEL NUMBER.

e.g. (B-V-546-X-LT-X-X-X-X-X)

SENSORS WITHOUT A SOLUTION GROUND HAVE "FT", "ST" OR "DT" IN THE MODEL NUMBER.

e.g. (B-V-546-X-DT-X-X-X-X-X)

SENSORS WITHOUT A SOLUTION GROUND REQUIRE THAT SENSOR DIAGNOSTICS BE TURNED OFF IN THE TRANSMITTER AND A JUMPER IS INSTALLED AS SHOWN BELOW.



FOR SENSORS WITHOUT TEMPERATURE COMPENSATION DISREGARD TC WIRES. PROGRAM ANALYZER FOR MANUAL TEMPERATURE COMPENSATION.



FOR ORP/REDOX SENSORS COAX CORE WILL BE LABELED AS "ORP IN" AND WIRING IS THE SAME.

ANALYZER CONFIGURATION & SETTINGS

• WIRING

Sensor Lead

"TC IN" - Red
 "TC RET" - Green
 "TC SNSE" - Black
 "pH IN" - Coax Core Shield
 "pH SHLD" - Coax Shield
 "SOL GRND" - Clear (Drain)
 "REF" - White

Analyzer Terminal

(1) RTD Measurement
 (2) RTD Return
 (2A) RTD 3-Wire
 (3) Measurement Electrode
 (3A) Meas. Screen (Shield)
 (4) Solution Earth Ground
 (5) Reference Electrode

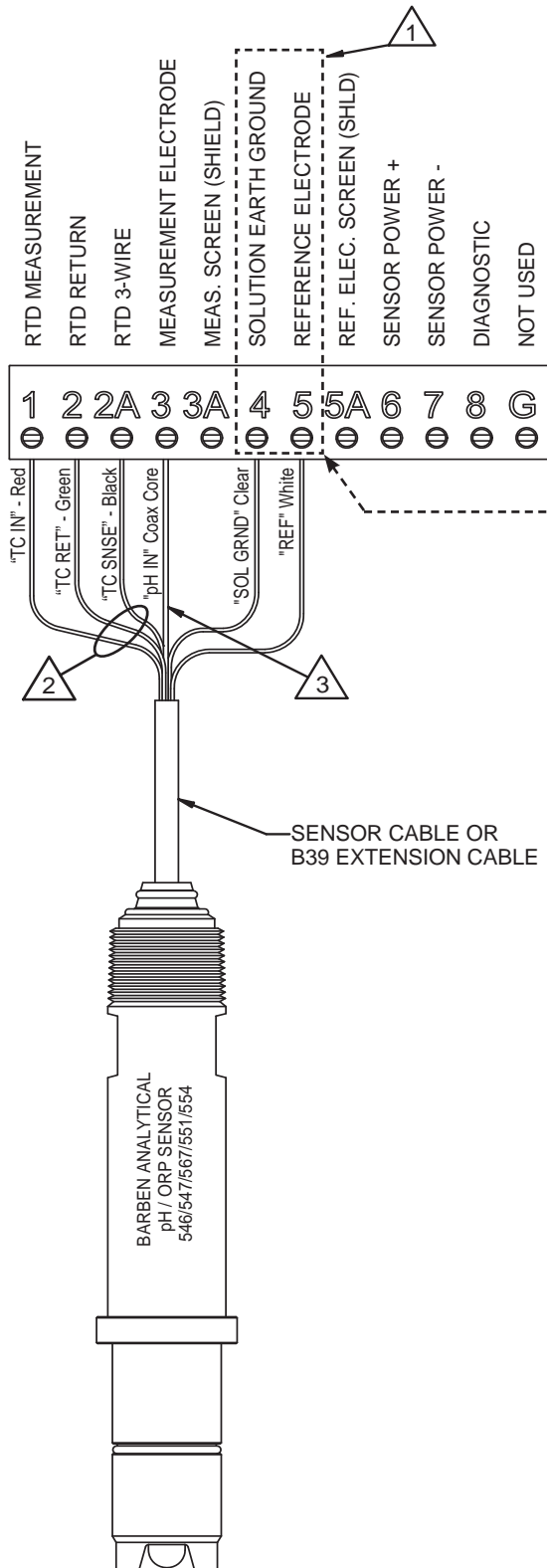
- ALL ANALYZERS ACCEPT PT100, PT1000, OR 3.01kΩ RTD TEMPERATURE INPUTS.
- SELECT TEMPERATURE COMPENSATION MODE IN ANALYZER BASED ON THE TYPE OF RTD

Wiring Diagram

Foxboro (Invensys) 870ITPH

BARBEN SENSOR: "C" TERMINATION

e.g. (B-V-546-X-XX-X-X-X-**C**-XX)



"IMPORTANT WARNINGS"



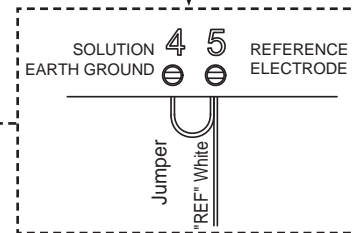
THE WIRING SHOWS A SENSOR WITH A SOLUTION GROUND. THIS OPTION IS DESIGNATED WITH WITH "GT", "UT" OR "LT" IN THE MODEL NUMBER.

e.g. (B-V-546-X-**LT**-X-X-X-X-X)

SENSORS WITHOUT A SOLUTION GROUND HAVE "FT", "ST" OR "DT" IN THE MODEL NUMBER.

e.g. (B-V-546-X-**DT**-X-X-X-X-X)

SENSORS WITHOUT A SOLUTION GROUND REQUIRE THAT SENSOR DIAGNOSTICS BE TURNED OFF IN THE TRANSMITTER AND A JUMPER IS INSTALLED AS SHOWN BELOW.



FOR SENSORS WITHOUT TEMPERATURE COMPENSATION DISREGARD TC WIRES. PROGRAM ANALYZER FOR MANUAL TEMPERATURE COMPENSATION.



FOR ORP/REDOX SENSORS COAX CORE WILL BE LABELED AS "ORP IN" AND WIRING IS THE SAME.

ANALYZER CONFIGURATION & SETTINGS

• WIRING

Sensor Lead

"TC IN" - Red
 "TC RET" - Green
 "TC SNSE" - Black
 "pH IN" - Coax Core Shield
 "SOL GRND" - Clear (Drain)
 "REF" - White

Analyzer Terminal

(1) RTD Measurement
 (2) RTD Return
 (2A) RTD 3-Wire
 (3) Measurement Electrode
 (4) Solution Earth Ground
 (5) Reference Electrode

- ALL ANALYZERS ACCEPT PT100, PT1000, OR 3.01kΩ RTD TEMPERATURE INPUTS.
- SELECT TEMPERATURE COMPENSATION MODE IN ANALYZER BASED ON THE TYPE OF RTD

Barben Analytical reserves the right to make technical changes or modify the contents of this document without prior notice. We reserve all rights in this document and in the subject matter and illustrations contained within.