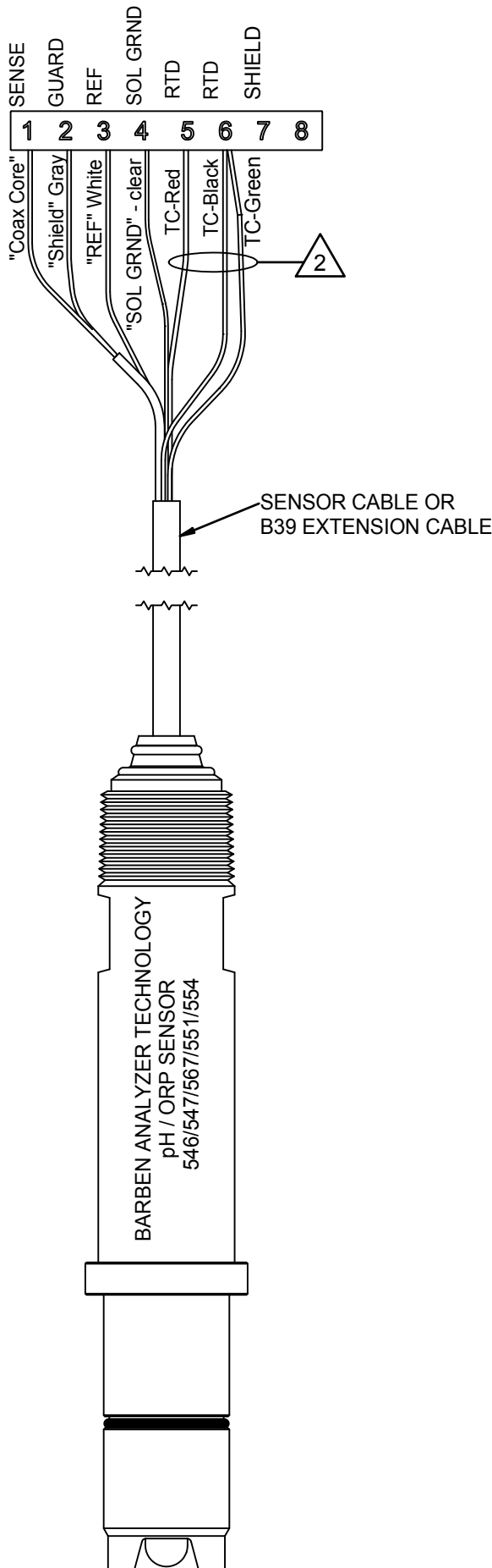


**BARBEN ANALYZER TECHNOLOGY (BAT) pH/ORP SENSOR - WIRED TO ABB TB82/TB84
BAT SENSOR CONFIGURATION: "E" TERMINATION**



"IMPORTANT WARNING"

1 THE WIRING SHOWS A SENSOR WITH A "SOL GRND" WHICH IS AVAILABLE IN MODELS WITH (GT, UT & LT) e.g. (B-V-546-X-LT-X-X-X-X-X)

FOR SENSORS WITHOUT SOLUTION GROUND (FT, ST & DT) YOU MUST LEAVE OFF / TURN OFF THE ADDITIONAL SENSOR DIAGNOSTICS.
CONFIGURE / MODIFY / DIAGNOSTICS [OFF].

2 FOR SENSORS W/O TC, DISREGARD TC WIRES. PROGRAM ANALYZER FOR MANUAL TEMPERATURE COMPENSATION.

NOTE:
TB82/TB84 ACCEPTS 2-WIRE TC's. USERS CAN WIRE AS SHOWN OR IF PREFERRED CUT BACK GREEN "TC RET" LEAD.

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

ANALYZER CONFIGURATION AND SETTINGS

• WIRING

3	Description	Terminal
	"pH IN" - Coax Core Wire	(1) SENSE
	"pH SHLD" - Coax Shield	(2) GUARD
	"REF" - White	(3) REF
	"SOL GRND" - Clear (Drain)	(4) SOL GND
	"TC IN" - Red	(5) RTD
	"TC SNSE" - Black	(6) RTD
	"TC RET" - Green	(6) RTD

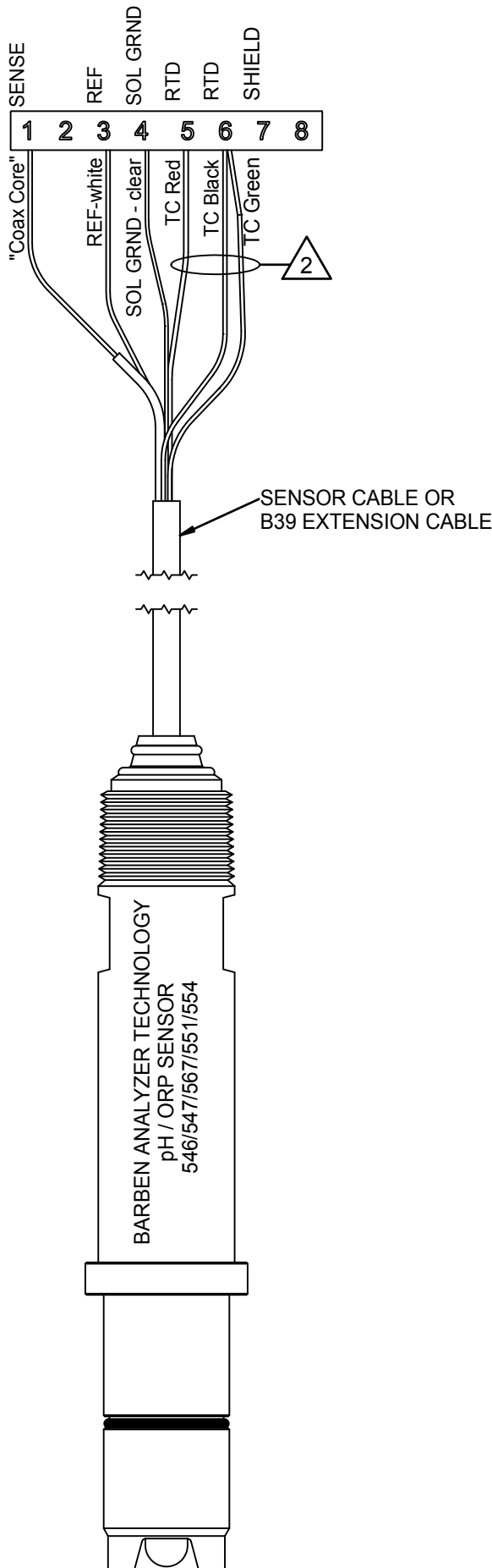
• Select PT100 or 3.01kΩ Balco RTD

• Select automatic temperature compensation mode.

-	05/06/13	INITIAL	WC	JL
REV	DATE	DESCRIPTION	DWN	APVD
REVISIONS				

DIMENSIONS IN INCHES	BAT pH/ORP SENSOR "E" TERMINATION ABB TB82 / TB84			
TOLERANCES	FOR TB82 / TB84 TO BAT pH SENSORS			
.0 ± .015"	 BARBEN AMETEK Analyzer Technology, LLC O'BRIEN 5200 Convair Drive Carson City, NV 89706 PH(775)883-2500 FAX (775)297-4740			
.00 ± .010"				
.000 ± .005"				
FRACTIONAL ALL ± .015"	DRAWN BY	W. COWAN	ECO	DRAWING NO
ANGLES ± 1/4°	APVD BY	J. LANG	1658	2P0268
UNLESS OTHERWISE SPECIFIED	DATE	05/06/2013	SCALE	1:1
			SIZE	A
			SHEET	1 OF 2

**BARBEN ANALYZER TECHNOLOGY (BAT) pH/ORP SENSOR - WIRED TO ABB TB82/TB84
BAT SENSOR CONFIGURATION: "C" TERMINATION**



"IMPORTANT WARNING"

- 1** THE WIRING SHOWS A SENSOR WITH A "SOL GRND" WHICH IS AVAILABLE IN MODELS WITH (GT, UT & LT) e.g. (B-V-546-X-LT-X-X-X-X-X)

FOR SENSORS WITHOUT SOLUTION GROUND (FT, ST & DT) YOU MUST LEAVE OFF / TURN OFF THE ADDITIONAL SENSOR DIAGNOSTICS.
CONFIGURE / MODIFY / DIAGNOSTICS [OFF].
- 2** FOR SENSORS W/O TC, DISREGARD TC WIRES. PROGRAM ANALYZER FOR MANUAL TEMPERATURE COMPENSATION.

NOTE:
TB82/TB84 ACCEPTS 2-WIRE TC's. USERS CAN WIRE AS SHOWN OR IF PREFERRED CUT BACK GREEN "TC RET" LEAD.
- 3** FOR ORP SENSORS COAX CORE WILL BE LABELED "ORP IN" AND WIRING IS THE SAME.

ANALYZER CONFIGURATION AND SETTINGS

• WIRING

Description	Terminal
"pH IN" - Coax Core Wire	(1) SENSE
"REF" - White	(3) REF
"SOL GRND" - Clear (Drain)	(4) SOL GND
"TC IN" - Red	(5) RTD
"TC SNSE" - Black	(6) RTD
"TC RET" - Green	(6) RTD

- Select PT100 or 3.01kΩ Balco RTD
- Select automatic temperature compensation mode.

-	05/06/13	INITIAL	WC	JL
REV	DATE	DESCRIPTION	DWN	APVD
REVISIONS				

DIMENSIONS IN INCHES	BAT pH/ORP SENSOR "C" TERMINATION ABB TB82 / TB84			
TOLERANCES	FOR TB82 / TB84 TO BAT pH SENSORS			
.0 ± .015"	<p align="center">BARBEN AMETEK Analyzer Technology, LLC O'BRIEN 5200 Convair Drive Carson City, NV 89706 PH(775)883-2500 FAX (775)297-4740</p>			
.00 ± .010"				
.000 ± .005"				
FRACTIONAL ALL ± .015"	DRAWN BY	W. COWAN	ECO	DRAWING NO
ANGLES ± 1/4°	APVD BY	J. LANG	1658	2P0268
UNLESS OTHERWISE SPECIFIED	DATE	05/06/2013	SCALE	1 : 1
			SIZE	A
			SHEET	2 OF 2