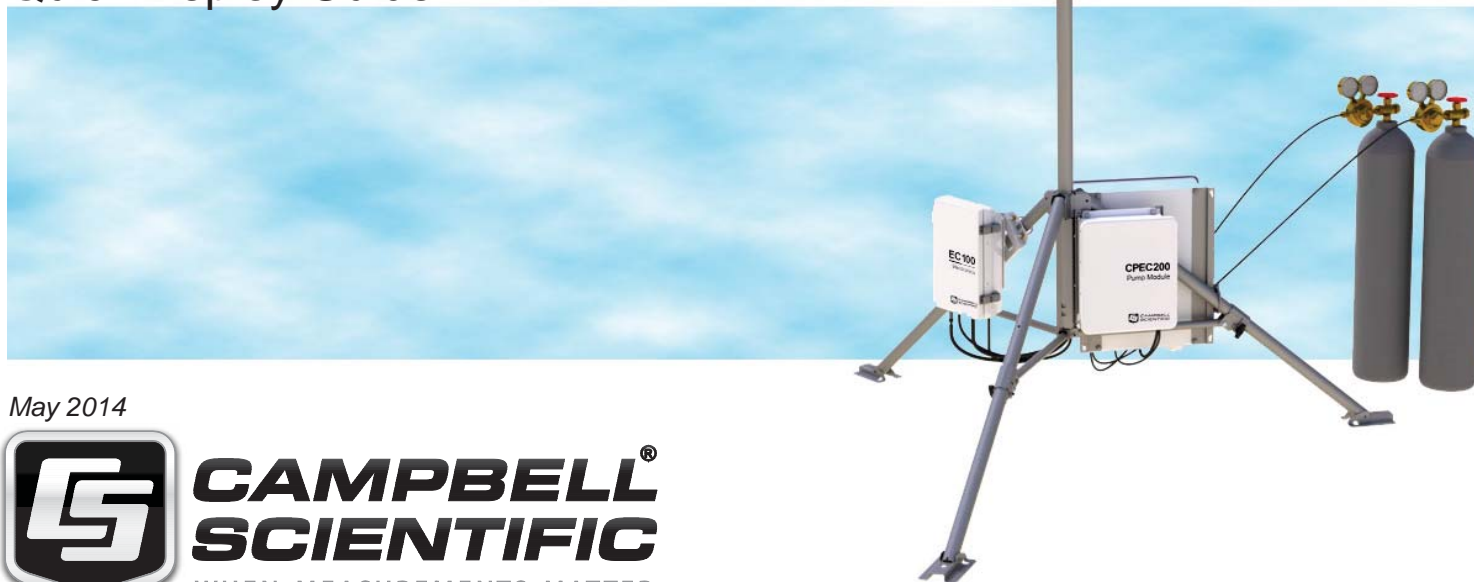# CPEC200

Closed Path
Eddy Covariance System

Quick Deploy Guide
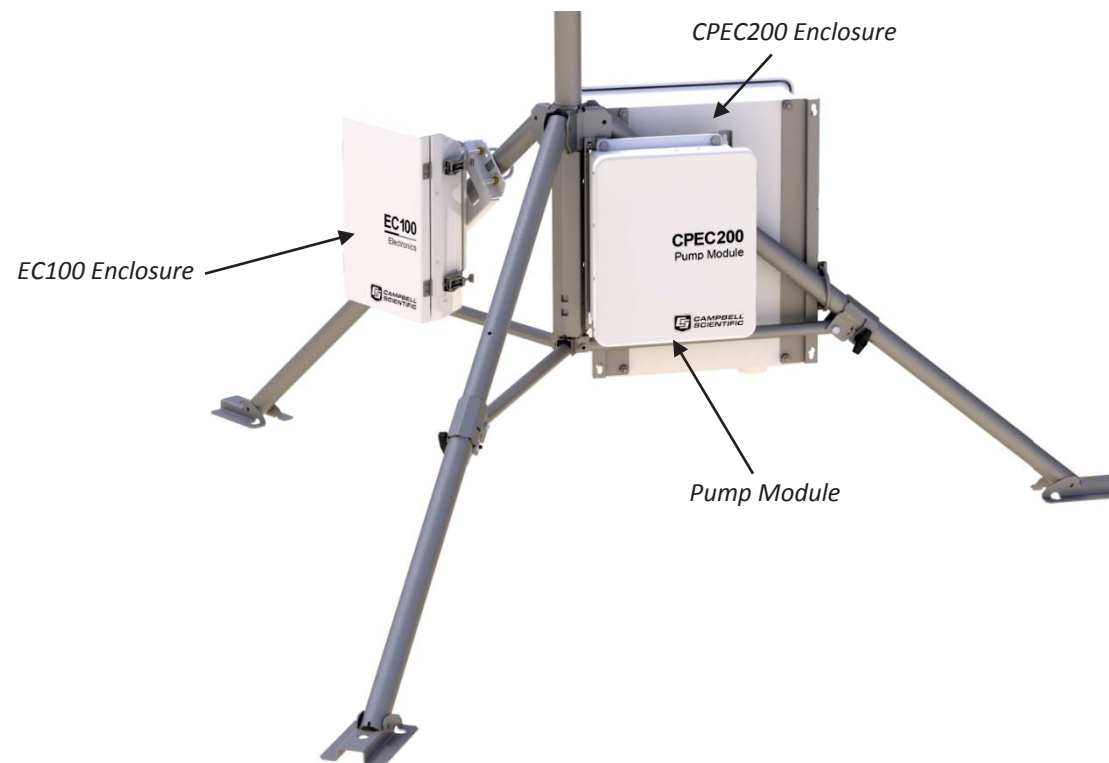
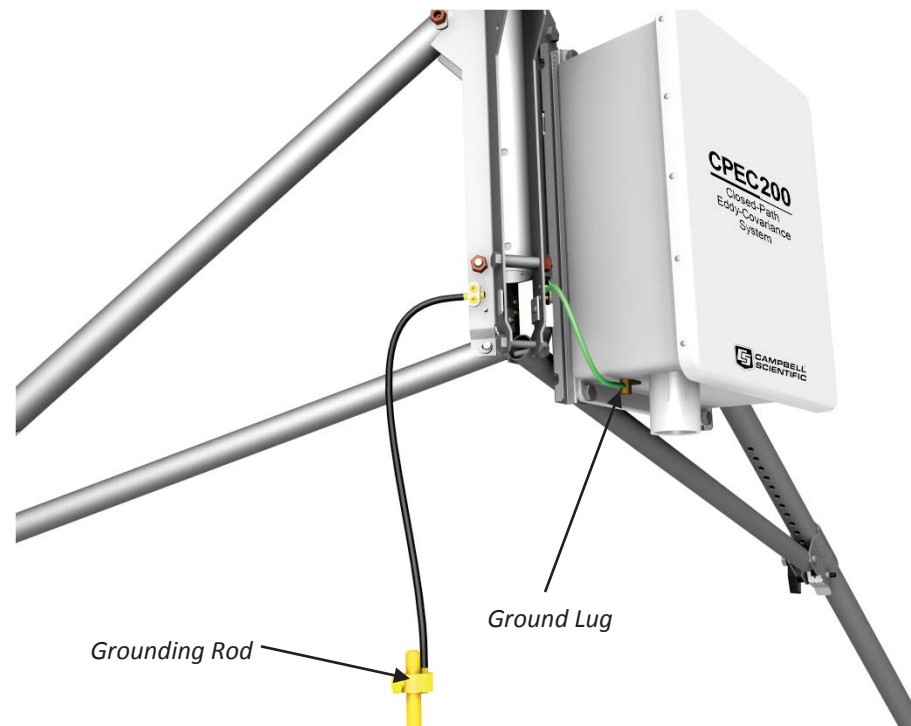*May 2014*

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WHEN MEASUREMENTS MATTER

1. **Setup tripod and mount enclosures.**
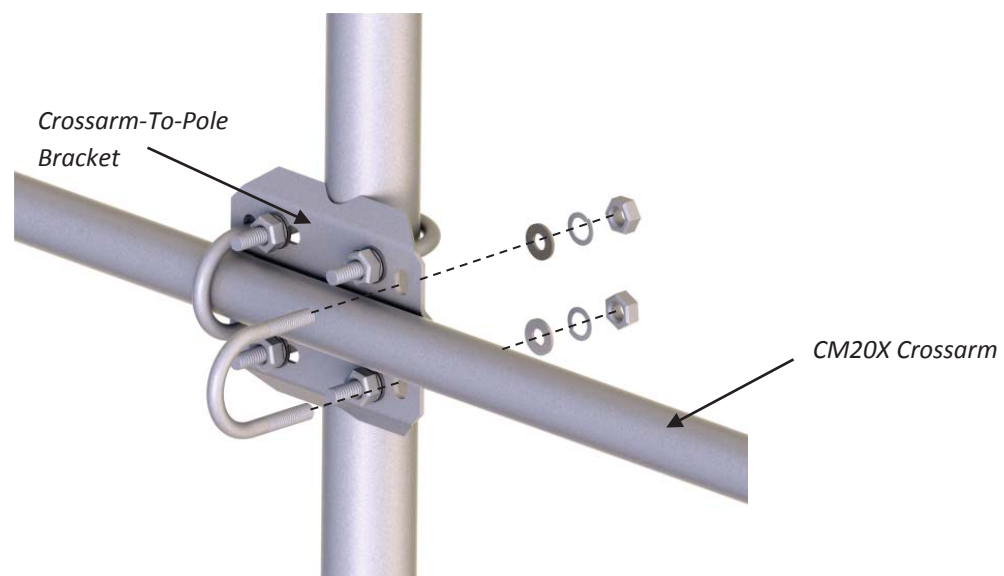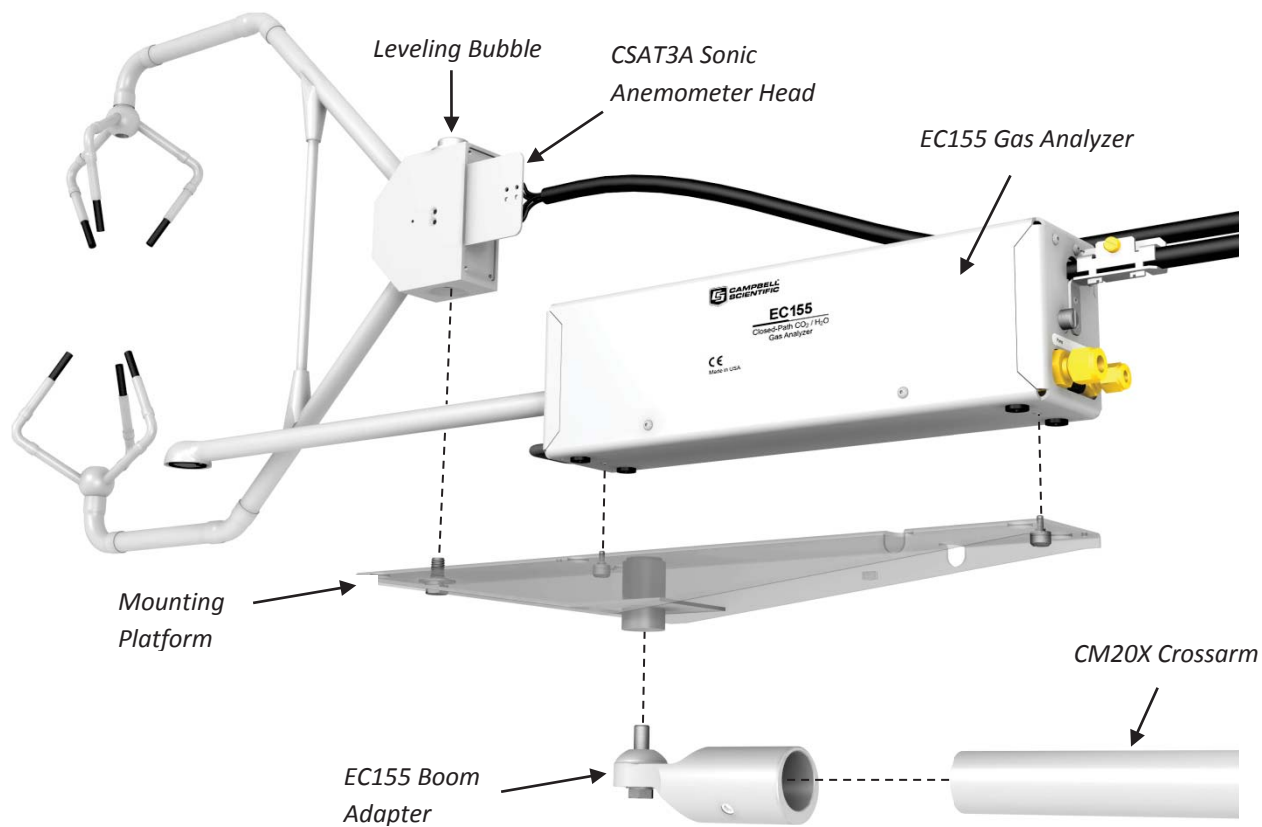

CPEC200 Enclosure

EC100 Enclosure

EC100
Electronics

CPEC200
Pump Module

Pump Module

2. **Ground tripod and enclosures.**

3. Setup tripod or mast with CM20X Crossarm.

Crossarm-To-Pole
Bracket

CM20X Crossarm

4. Mount gas analyzer and sonic anemometer.

Leveling Bubble

CSAT3A Sonic Anemometer Head

EC155 Gas Analyzer

Mounting Platform

CM20X Crossarm

EC155 Boom Adapter

5. Connect EC155 and CSAT3A to EC100 Electronics.

EC155 Analyzer Cable

EC155 Sample Cell Cable

CSAT3A Cable
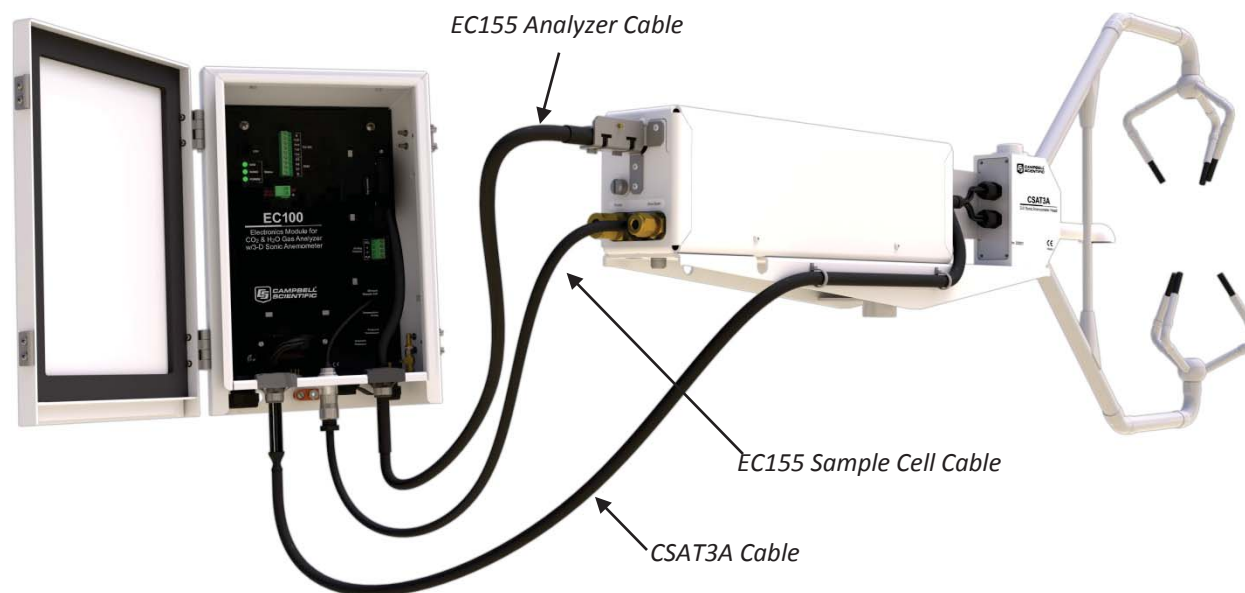
6. Connect system plumbing.

Zero Air Tubing

Pump Tubing

Analyzer Tubing

CO_2 Span Gas Tubing

Pump Module Cable
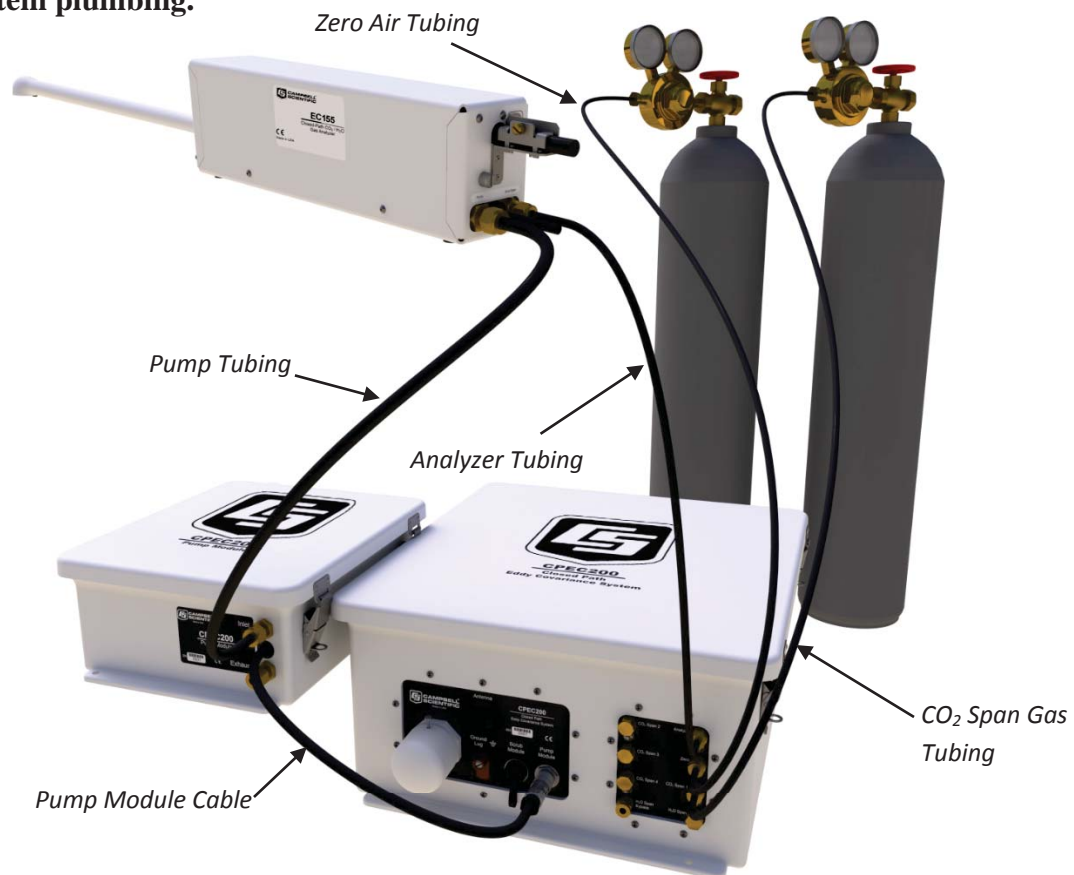
7. Connect system wiring and insert compact flash (CF) card.

Insert CF Card

System Power Cable
(ensure +12 Vdc power
supply is off)

EC100 Power and SDM Cables

Power Cable to +12Vdc
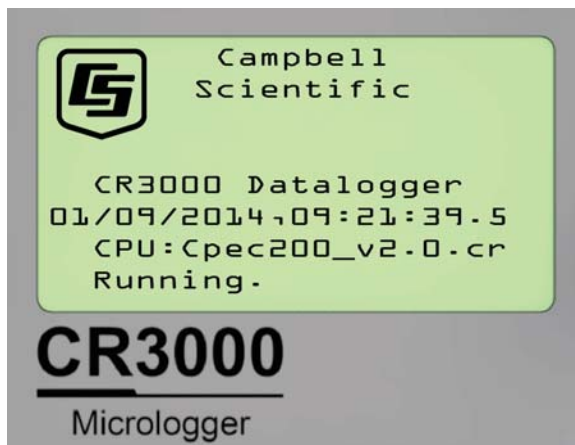Power Supply (off)

Power Cable
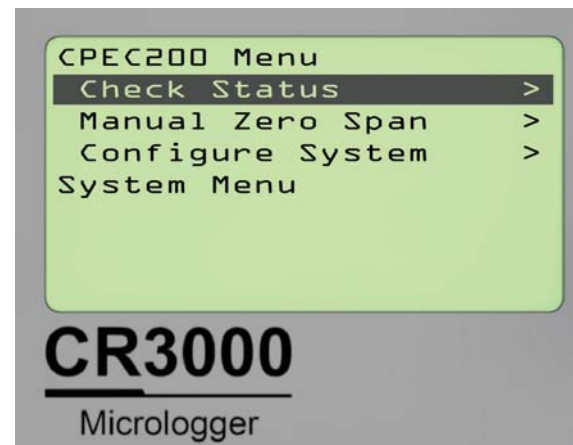to EC100
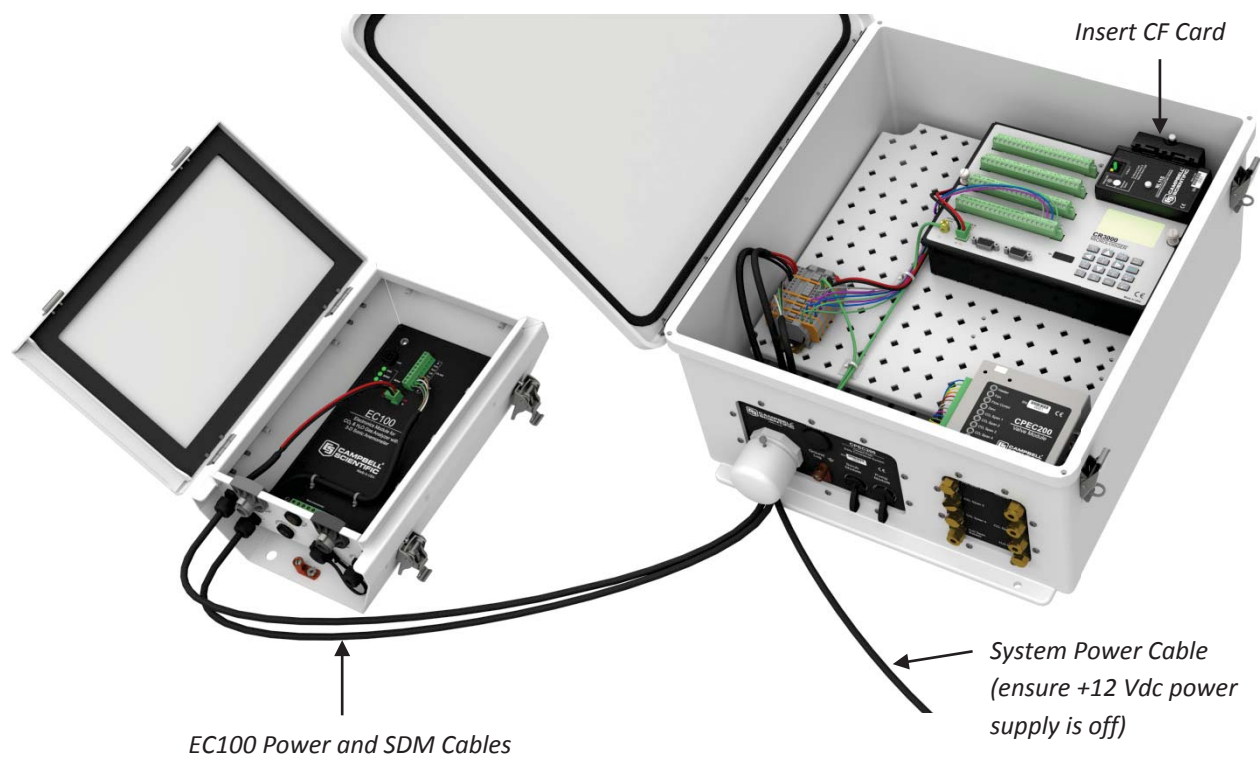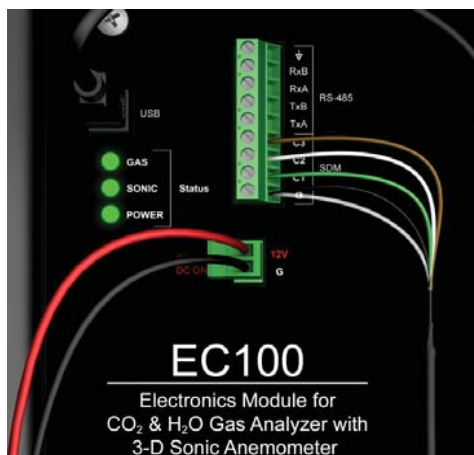
EC100
Power Cable

EC100 SDM
Cable
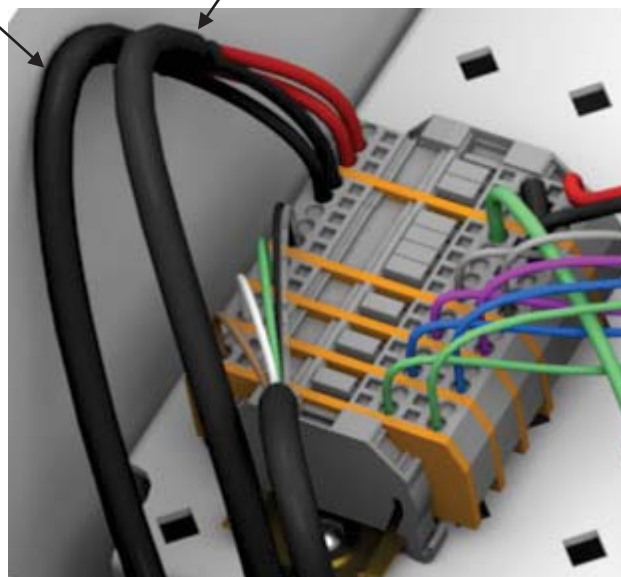
SDM Cable to EC100

8. **Turn on the +12 Vdc power supply and use the datalogger keyboard display to set settings and initiate zero/span checks.** (Follow the steps from left to right, top to bottom).
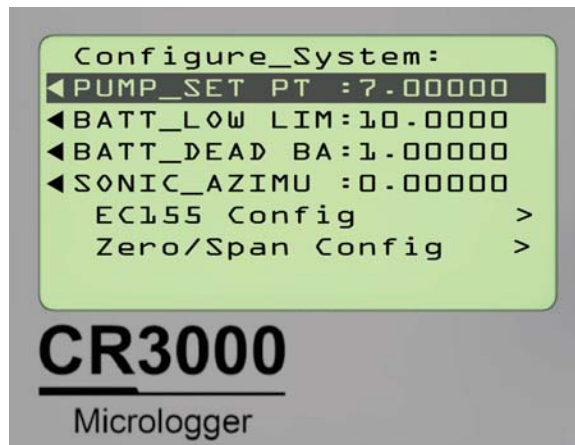
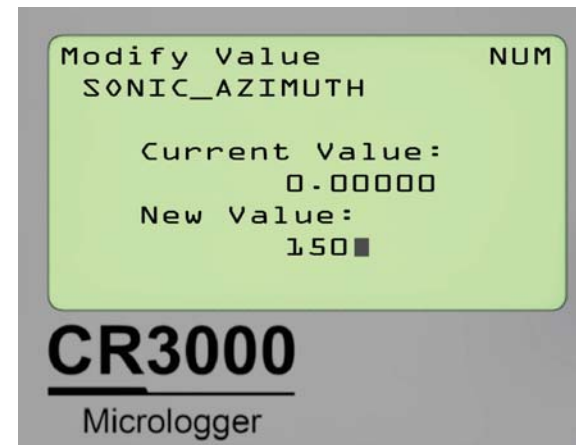**8.1** Press \<Esc\> to activate the display. Press \<Enter\> to display the System Control Menu.
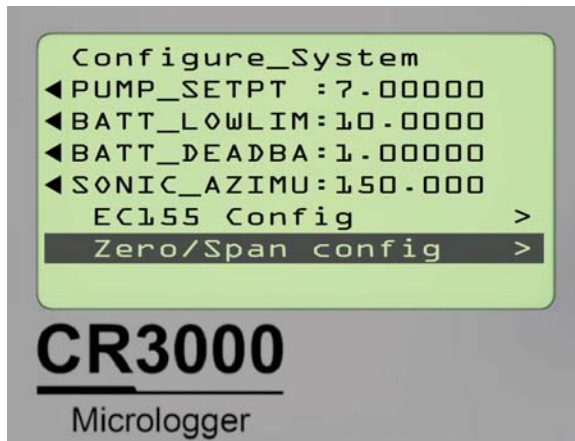

8.2 Select "Configure System."

8.3 Select "SONIC_AZIMU."

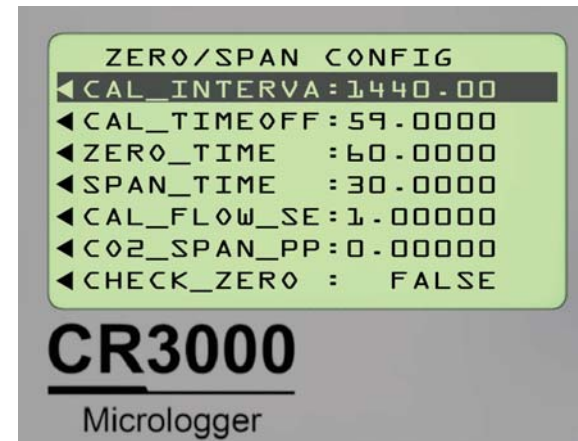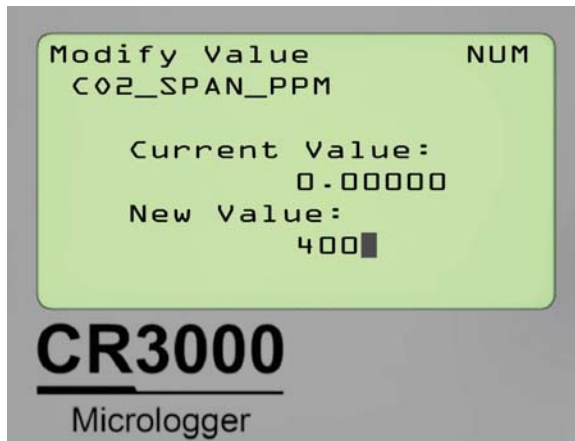**8.4** Enter the CSAT3A sonic head azimuth.

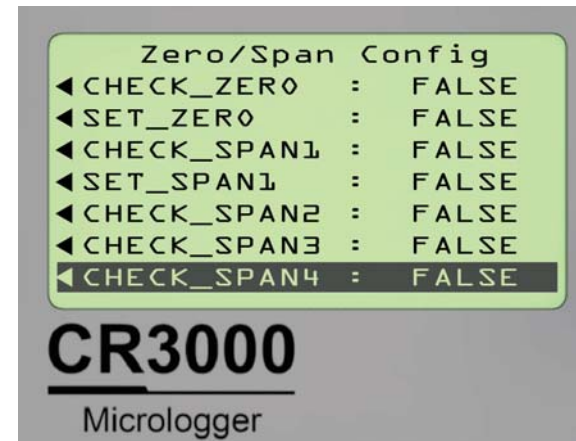**8.5** If the CPEC does not have a valve module, skip to the **8.10**. Otherwise, select "Zero/Span Config."
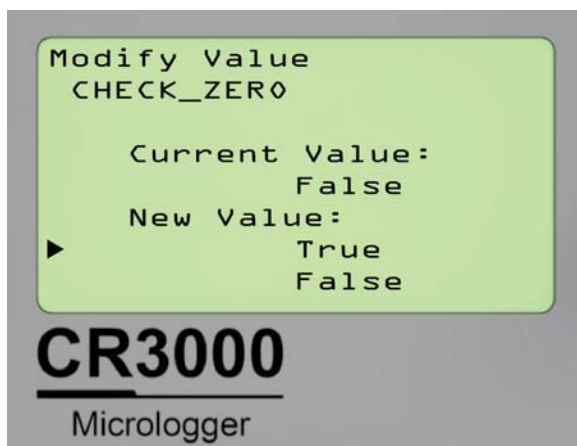
8.6 Select "CO2_SPAN.PP: 0.00000."

8.7 Set CO2_SPAN_PPM to CO2 tank concentration.
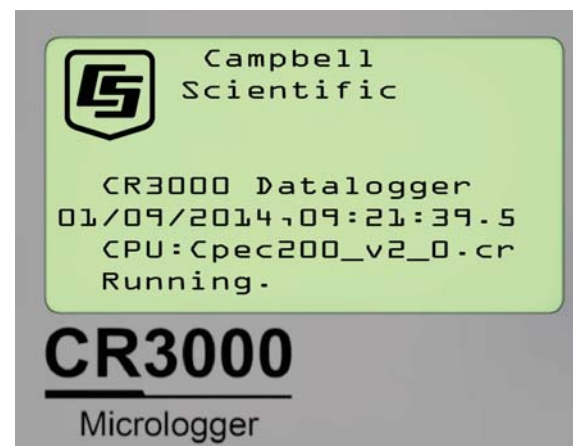

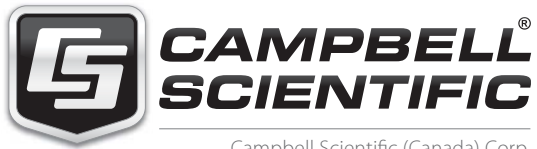**8.8** Select CHECK_ZERO, SET_ZERO, CHECK_SPAN1, SET_SPAN1 in sequence.

8.9 For each value selected on the previous screen, change the setting from "False" to "True" for auto zero/span.

8.10 Press <ESC> to exit.

```
Modify Value
 CHECK_ZERO

    Current Value:
            False
    New Value:
►           True
            False
```

CR3000
Micrologger

```
       Campbell
  [CS] Scientific

    CR3000 Datalogger
01/09/2014,09:21:39.5
   CPU:Cpec200_v2_0.cr
   Running.
```

CR3000
Micrologger

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