**CPEC300 System Diagram**

- CSA3A Sonic Anemometer Head
- Sample Intake Assembly with EC155 Gas Analyzer
- CPEC300 Enclosure
- CPEC300 Pump Module

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**Using the CR1000KD keypad to configure settings and zero/span on a deployed system**

When not using datalogger support software such as LoggerNet, turn on the +12 Vdc power supply and use the CR1000KD keypad to configure the settings and zero/span.

1. Press Enter to activate the display. Press Enter again to display the System Control menu.
2. On the System Control menu, select Site Var Settings to customize site specific variables.
3. Enter site-specific variables. Press Esc when complete to return to the main menu.
4. On the System Control menu, select Const Table to modify sensor information.
5. Add and remove sensors by selecting 1 for true and 0 for false. Once the changes are completed, select Apply and Restart at the bottom of the screen. Select Yes to save the changes. The device will then restart.

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**Required Gear**

The following tools are required to install the CPEC300 system in the field. Additional tools may be required for a user-supplied tripod or tower.

1. 9/16-in, open-end wrench
2. 1/2-in, open-end wrench
3. 11/16-in, open-end wrench
4. Adjustable wrench
5. Small, flat-tip screwdriver
6. Large, flat-tip screwdriver
7. Sledgehammer (to drive grounding rod into the ground)
8. 3/16-in hex-key wrench

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**Physical Deployment**

1. Set up the tripod and crossarm pole.
   - Secure the tripod to the ground.
   - Attach the horizontal crossarm pole to the desired height on the tripod.

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**IMPORTANT NOTE:** This Quick Deploy Guide is meant to be a general reference to give the installer an overview of the steps required to make this system operational. The Owner's Manual is the definitive source for detailed installation instructions and information.

**Caution!!**

- Do not connect or disconnect the EC155 gas analyzer head or the CSA3A sonic anemometer head from the EC100 electronics while the EC100 is powered. Doing so can result in unpredictable performance of the system or damage to the instrument head.
- Grounding electrical components in the measurement system is critical. Proper earth (chassis) grounding will ensure maximum electrostatic discharge (ESD) protection and higher measurement accuracy.
- Use care when connecting and disconnecting tube fittings to avoid introducing dust or other contaminants.
- Do not overtighten the tube fittings. Consult the manual for information on proper connection.
- The CPEC300 power source should be designed thoughtfully to ensure uninterrupted power. If needed, contact Campbell Scientific for assistance.
- Retain all spare caps and plugs as these are required when shipping or storing the CPEC300 system.

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**QUICK DEPLOY GUIDE**

Document Part Number: 34222
Revision Date: September 2018

CPEC300
Closed-Path Eddy-Covariance System

**Info Link**

- [Campbell Scientific](https://www.campbellsci.com)
- [LoggerNet](https://www.campbellsci.com/loggernet)

**System Control**

- Initial Configuration
- Site Var Settings
- Run Station
- Attendant Zero/Span
- Const Table
- System Menu

**System Menu**

- Auto Var Settings
- Lake height: 10.00000
- Pck Surf typ: GRASS
- Canopy height: 0.00000
- d, d auto: 10.00000
- d, d auto: 10.00000
- GPS height: 10.00000
- Bulk density: 1200.00

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**Sample Intake Assembly with EC155 Gas Analyzer**

- CPEC300 Pump Module
- CPEC300 Enclosure
- CSA3A Sonic Anemometer Head

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**2 Required Gear**

**Physical Deployment**

1. Set up the tripod and crossarm pole.
   - Secure the tripod to the ground.
   - Attach the horizontal crossarm pole to the desired height on the tripod.

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**Physical Deployment**

1. Set up the tripod and crossarm pole.
   - Secure the tripod to the ground.
   - Attach the horizontal crossarm pole to the desired height on the tripod.
1. Connect to the datalogger
2. Connect and select the Const_Table within the EasyFlux™ DL program.
3. Confirm all the sensors used at the site are set to -1. To change a value in this table, right-click on the current value and select View/Modify from the pop-up menu. Press Apply once the new value has been entered.
4. Go to the “Public” table to set site specific variables like measurement height, lat and lon, sonic azimuth angle, etc (refer to the user manual on variable definitions).

Note: Setting these variables does not require an ApplyAndRestart.

**Configuring with LoggerNet/PC200W or PC400**

Turn on the +12 Vdc power supply and use either LoggerNet, PC200W, or PC400 on a laptop to configure settings and zero/span. If using the CR1000KD keypad, use the instructions on the front page of this quick deploy guide.

1. Connect to the datalogger
2. Connect and select the Const_Table within the EasyFlux™ DL program.
3. Confirm all the sensors used at the site are set to -1. To change a value in this table, right-click on the current value and select View/Modify from the pop-up menu. Press Apply once the new value has been entered.
4. Go to the “Public” table to set site specific variables like measurement height, lat and lon, sonic azimuth angle, etc (refer to the user manual on variable definitions).

Note: Setting these variables does not require an ApplyAndRestart.