



Simple Start Instructions

HI/Beckwith M-2001C Regulator Control



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M-2001C “SimpleStart” Initial Setup Instructions

Communicating with the M-2001C

Determine the method of communicating with the M-2001C:

Utilizing the front panel four pushbutton Human Machine Interface (HMI).

By connecting to the front panel RS-232 communications port with a laptop PC utilizing TapTalk for Windows Communications Software.

By connecting to the SCADA communications ports on the top of the unit.

Apply Power to the M-2001C

If the control is attached to an adapter panel, control power can be applied to the front “**External Power**” input or to the proper panel control input pins.

If the control is not attached to an adapter panel, or the “blue plug” is removed, the control may be energized utilizing a “**Blue Plug**” adapter cord (part number B-0849 available from Beckwith Electric) and a 120 V ac wall outlet.

M-2001C Setup Procedure using the Front Panel HMI

1. Press the **↑**, **↓** or **Ent** pushbutton, the screen will display **LOCAL VOLTAGE**.
2. Confirm input voltage.
3. Press and hold the **↑** pushbutton until **TIME OF DAY** is displayed, then press **Ent**, a flashing “**C**” will be displayed indicating that changes may be made.
4. Set the first digit of the time (indicated by an underline of the digit) with the **↑** or **↓** pushbutton, then press **Ent** to shift to the next digit. Repeat for each time digit.
5. When all time digits have been set, then press **↓** once, **DATE** will be displayed.
6. Press **Ent** to set the first digit of the date (indicated by an underline of the digit) with the **↑** or **↓** pushbutton, then press **Ent** to shift to the next digit. Repeat for each date digit.
7. When all date digits have been set, then press **↓** once, **VAR HRS R 1PH E** will be displayed.
8. Each demand quantity will display an “**E**” on the right side of the screen. Press **Ent** to reset the demand value to zero.
9. Press **↓** to display the next demand quantity, then press **Ent**.
10. Repeat Step 9 for each demand quantity, the last demand quantity is **OPER CNTR RSET**.
11. Press **Exit**, the screen will extinguish.
12. Review the default configuration settings in the M-2001C Instruction Book, Appendix A or B, and determine if any of the settings need to be changed for this application.
13. If no configuration settings need to be changed, then go to Step 15.

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14. If configuration settings need to be changed, then proceed as follows:

- a) Press the **↑**, **↓** or **Ent** pushbutton, the screen will display **LOCAL VOLTAGE**.
- b) Confirm input voltage.
- c) Press **↓** once, **TO CONFIGURE COMMUNICATION** will be displayed.
- d) Press **Ent**, **LEVEL 2 PASSWORD** will be displayed.

■ **NOTE:** The default Level 2 Password is 2222 on new controls.

- e) Set the first digit of the Level 2 Password (indicated by an underline of the first digit) with the **↑** or **↓** pushbutton, then press **Ent** to shift to the next digit. Repeat for each digit.

When the last digit has been entered, the control will briefly display **LEVEL 2 ACCESS GRANTED!**. The control will then display **COMM PASSWORD**.

- f) Press the **↑** or **↓** pushbutton as necessary to advance to the desired configuration parameter.
- g) Press **Ent**, a flashing “**C**” will be displayed indicating that changes may be made.
- h) Press the **↑** or **↓** as necessary to toggle between the available settings, then press **Ent** to save the setting.
- i) When the required changes have been completed, press **EXIT**, the screen will extinguish.

15. Review the default setpoints in the M-2001C Instruction Book, Appendix A or B, and determine if any of the settings need to be changed for this application.

16. If no setpoints need to be changed, then go to the Data Logging section.

17. Press the **↑**, **↓** or **Ent** pushbutton, the screen will display **LOCAL VOLTAGE**.

18. Confirm input voltage.

19. Press **↓** twice, **BANDCENTER F** will be displayed. This screen marks the beginning of the setpoints.

20. Press the **↑** or **↓** pushbutton as necessary to advance to the desired setpoint, then press **Ent**.

- a) If a flashing “**C**” is displayed on the right side of the screen, then go to Step 21.

■ **NOTE:** The default Level 1 Password is 0000 (password disabled) on new controls.

- b) If **LEVEL 1 PASSWORD** is displayed (indicating a user defined password has been entered), then set the first digit of the Level 1 Password (indicated by an underline of the digit) with the **↑** or **↓** pushbutton, then press **Ent** to shift to the next digit. Repeat for each digit.

When the last digit has been entered and the proper password has been entered, then a flashing “**C**” will be displayed indicating that changes may be made. Go to Step 21.

21. Press the **↑** or **↓** as necessary to toggle between the available settings, then press **Ent** to save the setting.

22. For additional setpoint changes press the **↑** or **↓** pushbutton as necessary to advance to the desired setpoint, then repeat Step 21 for each setpoint to be changed.

23. When the required setpoint changes have been completed press **EXIT**, the screen will extinguish.

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TapTalk Communications Software for Windows

PC hardware requirements, communications utilizing a modem, communicating with multiple units and an overview of TapTalk software operation can be found in the M-2001C Instruction Book, Chapter 9.

TapTalk Communications Software is provided on a CD-ROM with each unit. It is also available at <http://www.beckwithelectric.com/tapchangers/m2029/m2029a.htm> .

Install M-2029A TapTalk Communications Software (PC)

1. Insert the TapTalk software into your CD-ROM drive or download the M-2029A software.
2. Select **Run** from the **Start Menu**.
3. From the **Run** dialog box, initiate software installation by typing **D:\Setup.exe** (or other drive designator:\Setup.exe, depending on the letter designation for the CD-ROM drive or location of the downloaded file).

The Installation Wizard will prompt the user through the installation process. After installation, the TapTalk program icon (located in the Becoware folder) can be placed on the desktop.

M-2001C Setup Procedure using TapTalk

1. Connect a Null Modem Cable from the active PC COM Port to COMM 2 on the front of control.
2. Select the TapTalk program-item icon from the Becoware group in the Program Manager, or select TapTalk from the program list using the Start Menu.

The TapTalk toolbar is displayed along with the Access dialog screen.

3. The Access dialog screen contains the following new control default values:

Password – no changes needed

Comm Address – 1

Control Comm Protocol – BECO2200

PC Communication Device – Serial Comm Port

PC COM Port – COM1

PC Baud Rate – 9600

4. On the Access dialog screen verify the following:

PC COM Port is set to the active PC COM Port that the Null Modem Cable is connected to.

Active PC COM Port baud rate is set to 9600.

■ **NOTE:** The local display screen must be extinguished (press **EXIT**) in order to access the control through the communication ports.

5. From the Access dialog screen select **OPEN** to open communications. If the correct COM Port parameters have been entered TapTalk will respond with:

“Communication has been opened successfully”.

6. From the Access screen, select **OK** to close the Access screen.

7. From the drop down menu, select **Utilities/Set Control Date/Time**. The Set Control Date/Time dialog screen will be displayed.

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8. The Set Control Date/Time dialog screen **Set Control Time** section, default setting for Current Address or Broadcast is set to Current Address. If multiple controls are being set, then select Broadcast.
9. If the control is to be set to PC Time, then select **Set Control Time to PC Time**. TapTalk will respond with a confirmation screen that states:

“Control’s time has been successfully set to PC’s time.
Do you want to reset the following points:
Demand Metering, Energy Metering, Drag Hands and Resettable Op Count?
Click Yes to reset the values,
Click No to continue without resetting.”

Select **Yes**, Tap Talk will respond with the confirmation screen that states:

“Demand Metering, Energy Metering, Drag Hands and Resettable Op Count have been reset.”
10. If the control is to be set to a time that is manually input, then input the desired time and select **Set**. TapTalk will respond with a confirmation screen that states:

“Control’s time has been successfully set to PC’s time.
Do you want to reset the following points:
Demand Metering, Energy Metering, Drag Hands and Resettable Op Count?
Click Yes to reset the values,
Click No to continue without resetting.”

Select **Yes**, TapTalk will respond with the confirmation screen:

“Demand Metering, Energy Metering, Drag Hands and Resettable Op Count have been reset.”
11. From the Set Control Date/Time screen select **Exit**.
12. From the drop down menu, select **Control Setup/Configuration**. The Configuration dialog screen will be displayed.
13. Review the default configuration settings and determine if any of the settings need to be changed for this application.
14. If no configuration settings need to be changed, then go to Step 16.
15. If configuration settings need to be changed, then proceed as follows:
 - a) From the Configuration Dialog screen, select and edit the desired configuration setting(s).
 - b) Select **Write To Control**, TapTalk will respond with a confirmation screen that states:

“Configuration settings have been successfully written to the control.”
 - c) Select **Exit**.
16. From the drop down menu, select **Control Setup/Setpoints**. The Setpoints dialog screen will be displayed.
17. Review the default setpoints and determine if any of the setpoints need to be changed for this application.
18. If no setpoints need to be changed, then go to the Data Logging section.
19. If setpoints need to be changed, then proceed as follows:
 - a) From the Setpoint Dialog screen, select and edit the desired setpoint(s).

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- b) Select **Write To Control**, TapTalk will respond with a confirmation screen that states: “Setpoints have been successfully written to the control.”
- c) Select **Exit**.

Data Logging

The control data logger has been preset to automatically begin collecting partial data when power is applied to the control. If changes to the values to be logged or the logging interval are desired, then proceed as follows:

1. From the TapTalk drop down menu, select **Utilities/Data Logging/Control Setup and Download**. The Data Logging Control Setup and Download dialog screen will be displayed.
2. When all Data Logging and Download parameters have been set, then perform the following:
 - a) Select **Erase Existing Data and Start Logging data to Control**.
 - b) Select **Yes** to confirm.
 - c) Select **OK** to close the Data Logging Control Setup and Download dialog screen.