INSTRUCTION MANUAL
FOR VARIABLE RATE OVER TIME COUNTER DISPLAYS

INTRODUCTION:

Variable rate over time counters display a count that increments as time passes. The frequency (how often the display increments) and the value (1-9) that the counter increments by can be set with Message Pro software or with an EDI keypad. The default factory setting for these displays will cause the counter to increment by 1 every second. This document covers the procedure for setting these two variables using the Message Pro software. For Keypad instructions see Appendix C.

This document covers these Variable Rate Over Time Counter models:

1. ED206-115-4D-N1
2. ED406-115-4D-N1
3. ED600D-115-4D-N1
4. ED800D-115-4D-N1

I SYSTEM OF TOOLS

Tools required:

Before starting setting up the sign collect these tools:

1. Desktop or Laptop computer with:
   - Windows operating system (98, 2000, or XP)
   - CD-ROM Drive
   - Comm. Port or USB Port with serial adapter installed
     (See Appendix D on documentation CD for USB adapter setup instructions)
2. One flat head 1/8"x 8" screwdriver.
3. Software and Documentation CD

II OPENING THE BOX AND INSPECTING THE SIGN:

Inside the box you will find these parts:

1. The sign with a 6' long, three conductor line cord installed.
2. RS232-RS485 CONVERTER with Power Adapter (See figure 1)
3. 25 to 9 pins adapter with 3' data cable (See figure 2).
4. Customer Documentation and Software CD

Figure 1

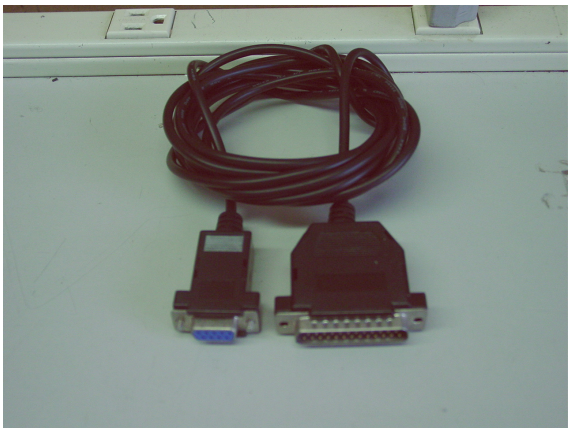
Figure 2

Insert the CD-ROM labeled “Customer Software & Documentation” in the CD tray of the computer and run it to see the files below:

1. User Manual
2. Wiring Diagram
3. EDI “Message Pro 2.62” software

Note: If, any of above items is missing, or damaged call EDI Tech Support, immediately, at 630-628- 0658 ext 4.

III. SETTING UP THE SIGN

1. Install the EDI "Message Pro 2.62" software from the CD- ROM.
2. Apply power to the sign(120vac):

The sign will powers up, displaying a random number that counts up by 1 every second (See figure 3).

Note: If no display is showing please, call EDI Tech Support at 630-628- 0658 ext 4

Figure 3 (Example Display)

3. Open the right side endplate to access the terminal block (See figure 4).

4. Connect 2 wires (Gauge 22 or 18 AWG) to the terminals "RX +" and "RX –"in the terminal block. The other end of the wires should terminate in terminals 1 and 2 of the Data converter, respectively. (See figure 5)

5. Connect the RS232 - RS485 data converter to the communication port of your computer using the 25 to 9 pin adapter (See figure 2 and figure 6)

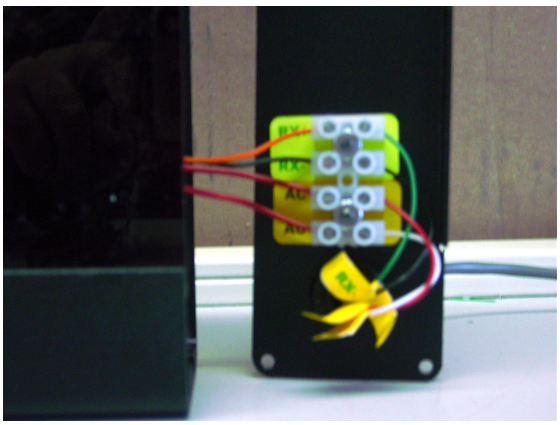

Figure 4

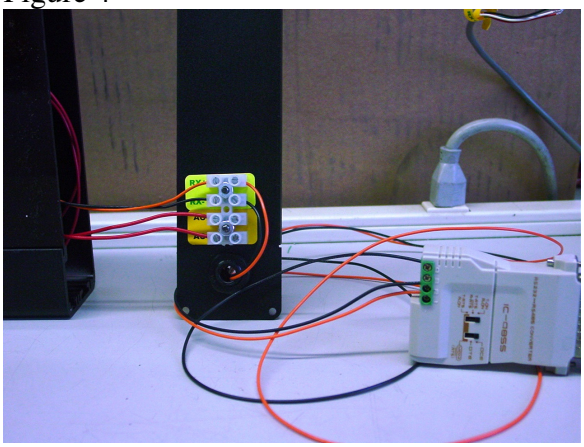

Figure 5

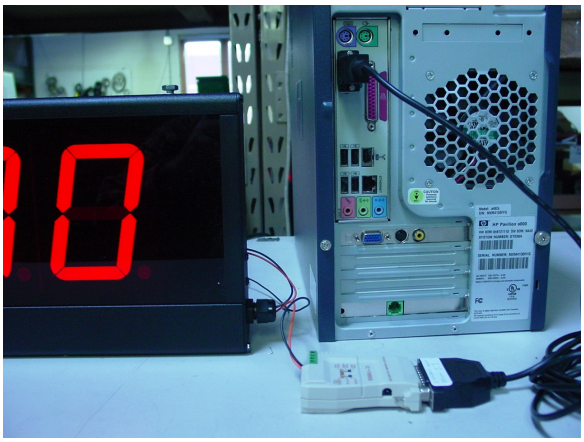

Figure 6

6. Open the “Message Pro 2.xx” software installed on your computer by double clicking on the icon. The Message Pro screen will open. (See figure 7).

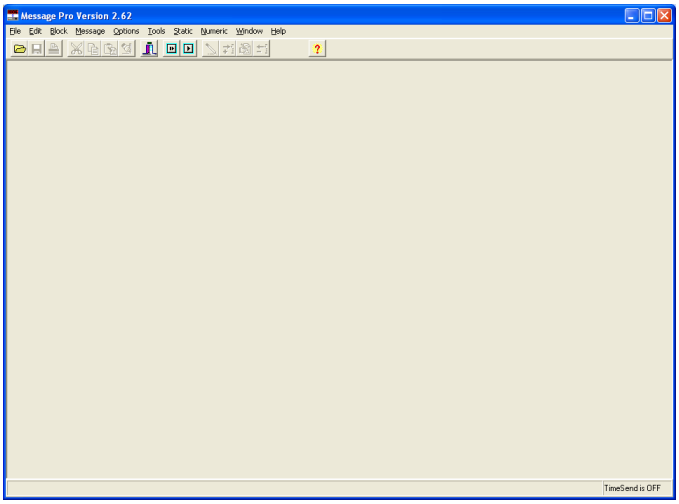

Figure 7

7. Select “Communications Setup” from the “Options” menu. The “Communications Setup” window will open. (See figure 8)

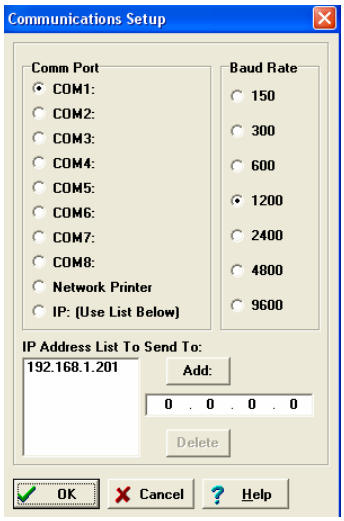

Figure 8

8. Select the Comm. Port and baud rate you will be using. (Example: Comm. Port 1 and 1200 baud rate are selected in Figure 8)

9. Click OK to accept the communication settings.

Note: The standard configuration settings will increment the count by 1 each second. You can set the counter to increment by any whole number. (Below)

10. To change the increment value from the standard settings, open the “Terminal Window” from the “Tools” menu. (See figure 11)

Figure 11

14. Type : <Ctrl+B><XX><YY><Z><Ctrl+J> (See Figure 12) where:

- <Ctrl + B> = STX (Start of text) command in ASCII code
- <XX> = 2 digits Address of the sign
- <YY> = number of the digits in the sign

- <Z> = increment value from 1 to 9

(Example: to change the standard increment value set at EDI from 1 to 5 in a 4 digits display, type: <Ctrl+B><01><04><5><Ctrl+J>). See figure 12.

Figure 12

IV. ASCII COMMANDS:

1. Changing Time rate:

To change the standard settings for the increment time use the following format:

<Ctrl+B><XX><HH><MM><SS><th><Ctrl+C><-><*><Ctrl+C>
Ctrl+B = ASCII character for STX
XX = 2 digit address of the sign
HH = 2 digit hours
MM = 2 digit minutes
SS = 2 digit seconds
th = 2 digit in tenths and hundredths of a second
Ctrl+C = ASCII character for ETX

Example: To set a counter with address 01 to increment every 12 hours, 24 minutes, 30 seconds and 25 hundredths, type:
<Ctrl+B><01><12><24><30><25><Ctrl+C><-><*><CtrlC> (See Figure 13)

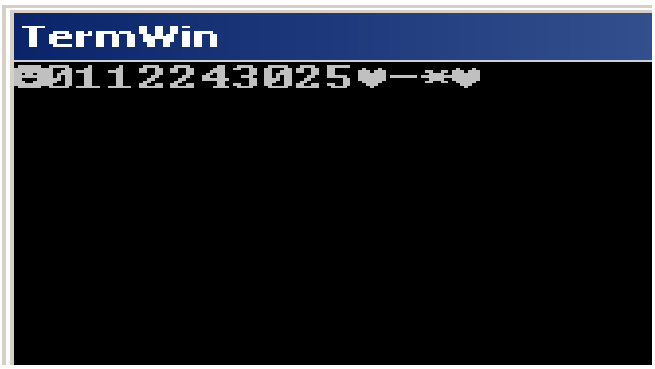

Figure 13

2. Preset Counter

To preset a starting number type: <Ctrl+B><XX><YYYY><ENTER>

<Ctrl+B><01><1000><ENTER>

Ctrl+B = ASCII character for STX; ENTER = ASCII character for CR.

XX = 2 digit address of the sign

YYYY = The preset value

Example: To preset a 1000 to the counter with address 01 type:

<Ctrl+B><01><1000><ENTER> (See Figure 14)

Figure 14

3. Hold Counting (Toggle Switch for RUN/HOLD)

To hold the counting, type: <Ctrl+B><XX><*><Ctrl+C>

XX = 2 digit address of the sign (see Figure 15)

Figure 15

4. Set count to 0

To set the counter to "0" type: <Ctrl+B><XX><-><Ctrl+C>

XX = 2 digit address of the sign (See Figure 16)

Figure 16

V. BACK LABEL INFORMATION:

The label on the back of the display contains this important information:

- Model Name: (example, ED 406-115-4D-N1)
- Job #: YYMMXXXX (where YYMM = year and month of production, XXXX = 4 digit serial number. Example: 09010071)

(See Figure 17 Below)

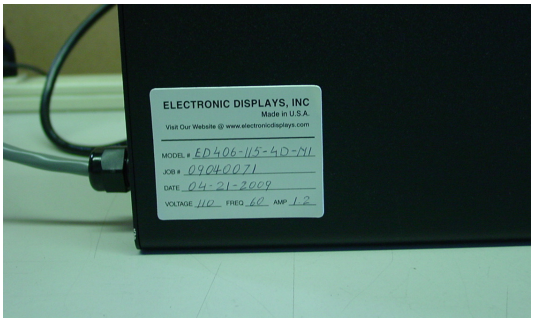

Figure 17

VI. APPENDIXES:

1. APPENDIX D: USB/COMM. PORT SERIAL ADAPTER.
2. APPENDIX C: KEYPAD INSTRUCTIONS