# Dot Matrix Indicator Programming

Preparation:

- USB Dongle and USB cable. Part No. 100-159 (see page 3 "Dongle Installation Instruction").
- Display Programmer V2.0 (see page 10 "Display Programmer V2 Installation Instruction")
- 24Vdc power supply. Connect 24V to P1, 0V to P2 and C terminals

Programming:

Step 1: Double click to on the desktop to run the program. If the Serial Communications port has been setup, skip to step 4.
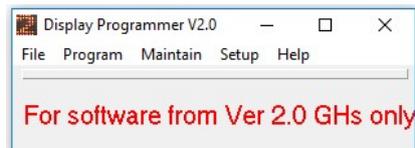
Step 2: Connect USB Serial dongle to the USB cable, then the cable to computer's USB port. Take note of the serial port number (must be registered from 1 - 4).
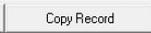
Step 3: Click "Setup – Serial Communications' and make sure correct serial port number has been selected then click OK button.


Step 4: Plug the 10 pin plug of USB dongle to the intended dot-matrix indicator. Connect the 24Vdc to 3 pin plug then power the unit up.

Step 5: If a programming message record has been created, skip to step 6. If not, click "Maintain – Display Configurations" to setup a new record.


Use the existing record as sample then click [Copy Record] button to copy existing record or [+] button to create a new clean record. Modify the record then re-name it at "Configuration" field. Click [✓] button to save.
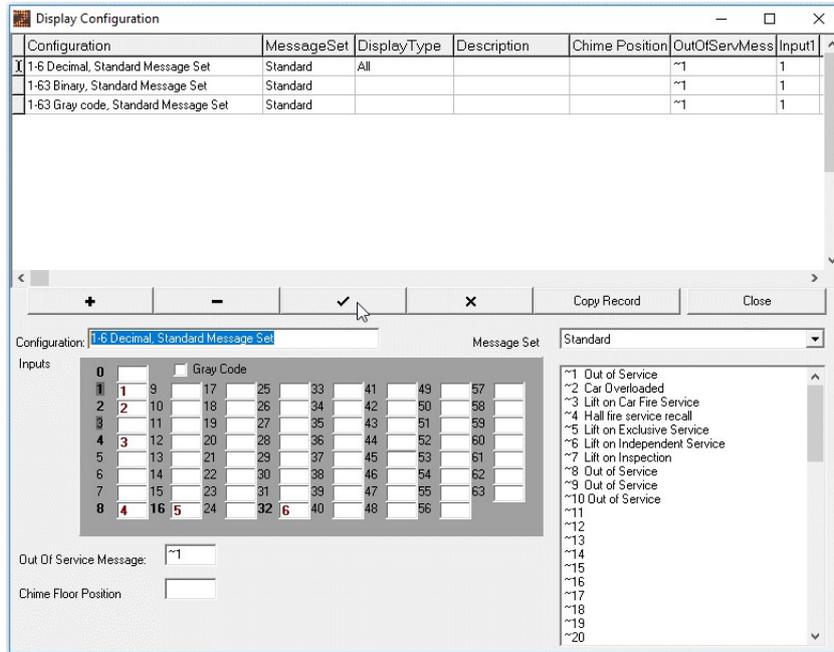
Step 6: Click "Program – Job Data" to open the Job data window for programming.
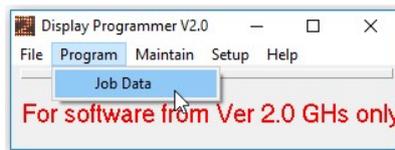
Click "Display Config." Field and select the intended programming record. Keep default settings or change any other fields if needed then click [Program] button to program to the indicator (ensure dongle is connected). Programming will take approx. 5 seconds.
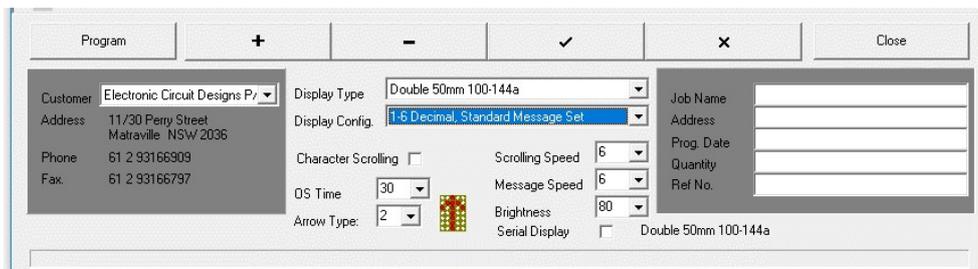
Step 7: Apply 24V to each floor input (1,2,4,8,16,32,UP,DN) to verify programming was completed correctly. Also check input configuration, decimal, binary or Gray code is correct.

Step 8: Repeat from step 4 to 7 to continue programming other indicators. Close the program when completed.

USB Serial Dongle
Installation Instruction

If the intended PC does not have a built-in serial 9 pin port, it is required to use an USB Serial dongle (ECD part # 100-159, connecting PC and Dot-matrix indicator) for programming.

Please follow the below steps to install the USB Serial dongle (for Windows XP OS, later Windows OS might automatically install certain driver):

1. **Install USB Serial Port driver:**

Step 1: Plug the dongle to an USB cable then to PC. A "Found New Hardware Wizard" will pop up.

Select "Install from a list of specific location (Advance)", then click "Next".

Step 2: Select "Don't search. I will choose the drive to install", then click "Next".
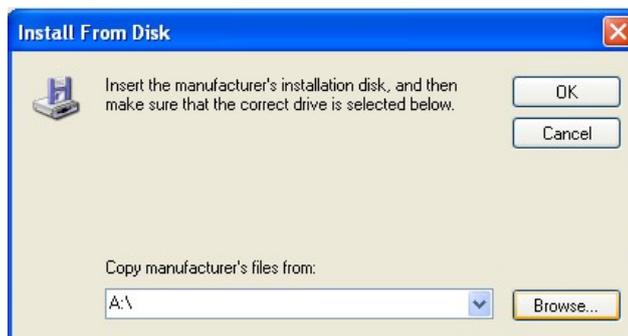
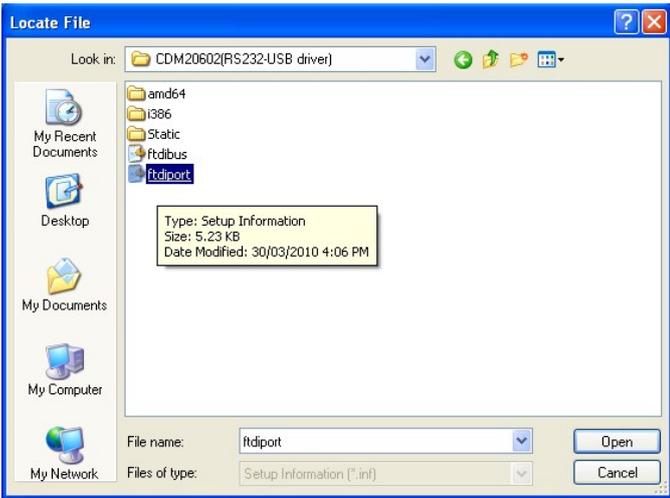**Step 3:** Select "Ports (COM & LPT), then click "Next".

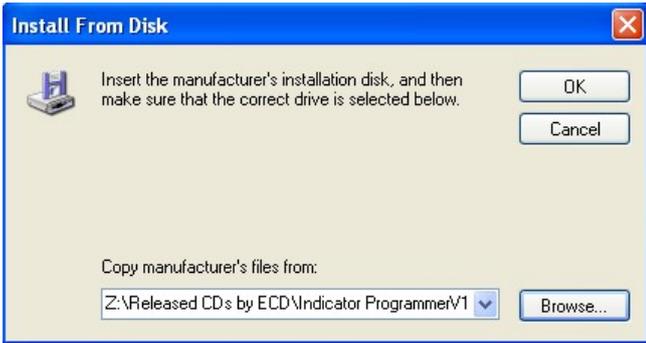**Step 4:** Click "Have Disk" to select drivers for the USB dongle.

Step 5: Click "Browse", and then locate driver files in the CD (or USB memory stick) drive, in folder "CDM20602 (RS232-USB driver)".

Step 6: There are two drivers needed to install. We now install the first driver. Select "ftdiport", and then click "Open".

Step 7: Click "OK" to install.

Step 8: Select "USB Serial Converter", and then click "Next".
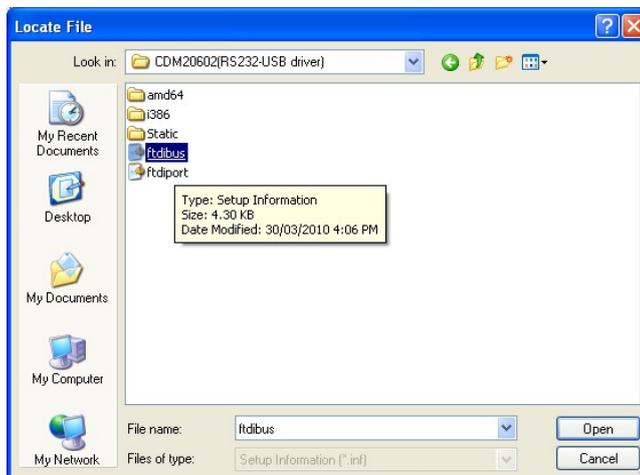
Step 9: Click "Continue Anyway".

Step 10: Click "Finish" to complete the Port driver installation.


2. Install BUS driver:

After complete the Port driver installation, a new "Found New Hardware Wizard" will pop up. Follow the instruction from step 2 to 10, but instead select "ftdbus" file in step 6.

3. <u>Validate the USB Serial COM Port Number</u>:

This instruction is intended for WindowsXP Operating System (OS). Please follow similar concept to change the port number for later Windows OS version.
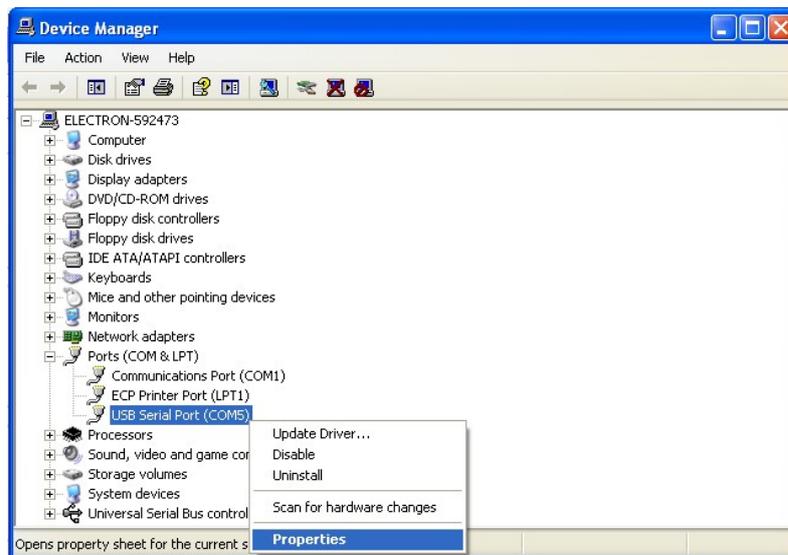
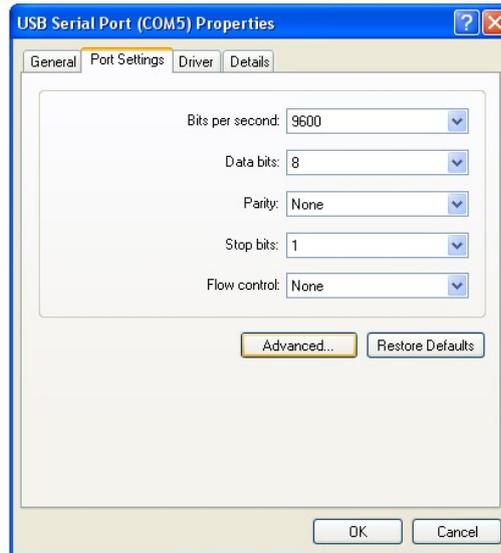Click Start, then Control Panel. Double click to "System".
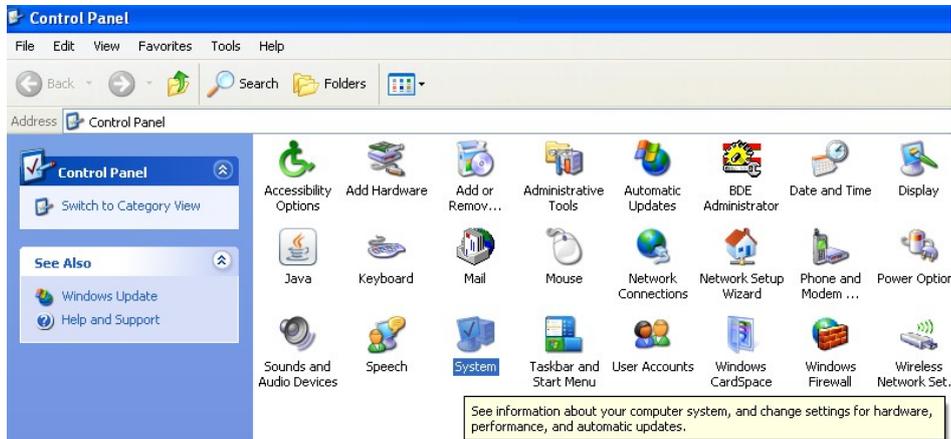
Select "Hardware" tab, and then click to "Device Manager" button.

Scroll down then click to "Ports (COM & LPT)" and look for USB Serial Port. The valid USB Serial Port number must be from 1 to 4. If not, then left click to select, right click to pop up menu, then left click to select "Properties".

Click "Advanced" button:

Change COM Port Number to any available port from 1-4.
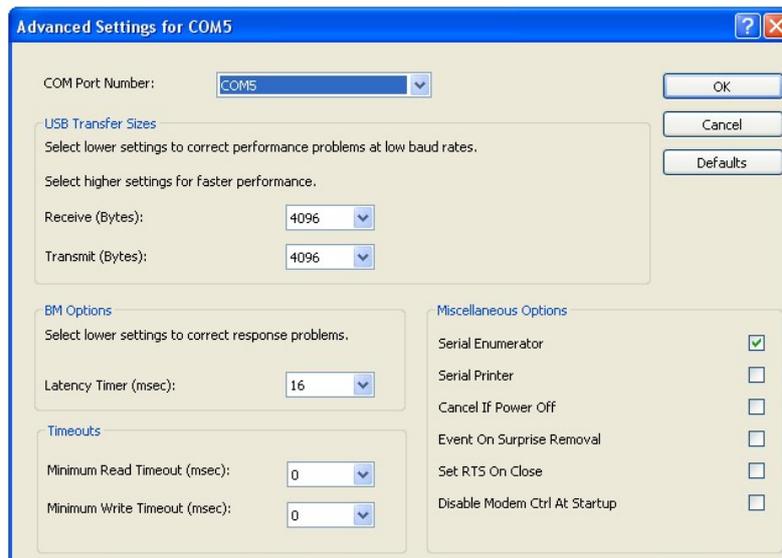
4. **Set USB Serial COM Port on Display Programmer:**

Double click to on the desktop to run the program (if not installed, see page 10 "Display Programmer V2 Installation Instruction").

Click "Setup – Serial Communications' and make sure correct serial port number has been selected.

Click OK button to complete.
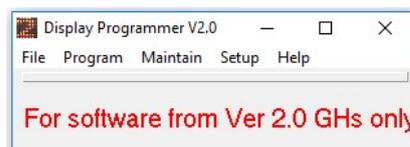
Display Programmer V2
Installation Instruction
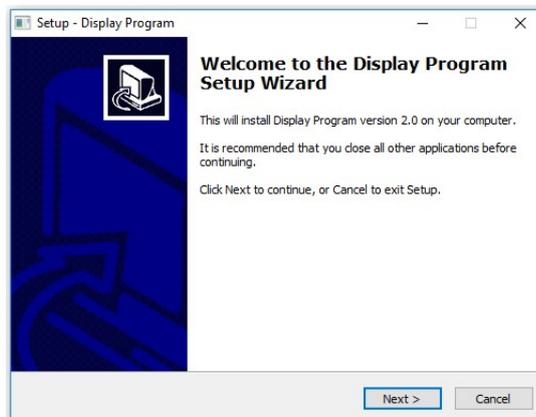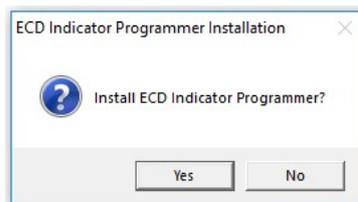
Please follow the below steps to install the programmer:

Step 1: Insert "Display Programmer V2" USB to the computer. Open the USB drive then click to 🗔 Indicator.exe file to open the launcher or alternatively click "Setup.exe" file then continue step 3.
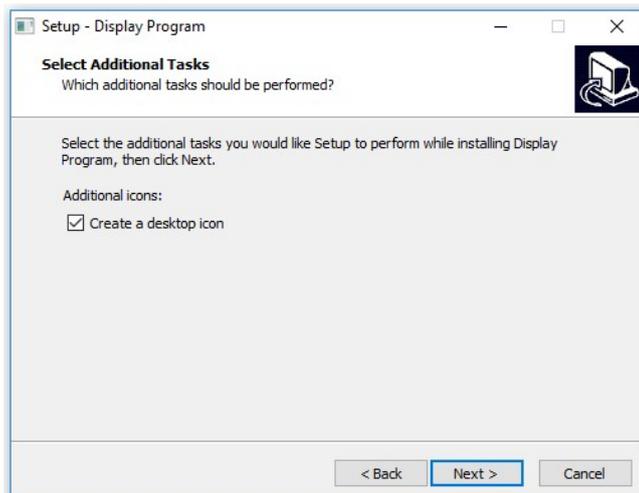
Name	Date modified	Type	Size
CDM20602(RS232-USB driver)	4/1/2014 5:28 PM	File folder	
Autorun	2/20/2014 10:48 AM	Setup Information	1 KB
bdemerge	2/19/2014 2:38 PM	Configuration sett...	1 KB
CDM20602(RS232-USB driver)	8/5/2015 10:18 AM	Compressed (zipp...	1,180 KB
Display Programmer Installation	6/8/2011 11:01 AM	PDF File	337 KB
Display Programmer	12/12/2008 11:39	PDF File	97 KB
DISPLAYwiring	8/28/2007 1:07 PM	PDF File	158 KB
Indicator Sale Brochure	8/28/2007 12:57 PM	PDF File	232 KB
Indicator	8/28/2007 3:03 PM	Application	24 KB
setup	10/9/2014 5:40 PM	Application	4,311 KB

Step 2: On "ECD Indicator Programmer Setup Launcher", click on "Install" button and follow prompted instructions to install the program.

Step 3: Follow the below prompt instruction to complete the installation.

Setup - Display Program

License Agreement
Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
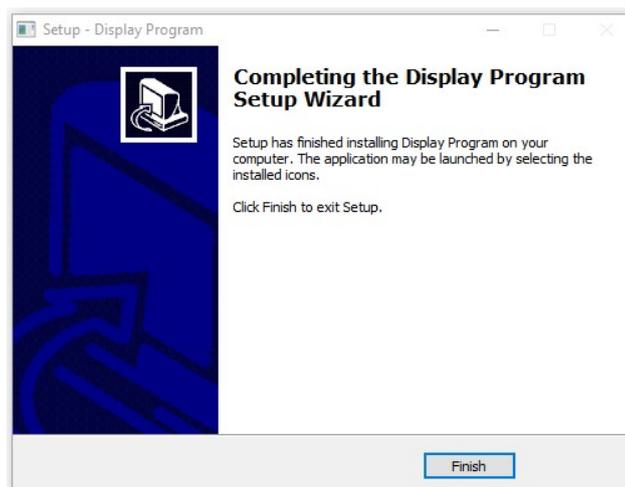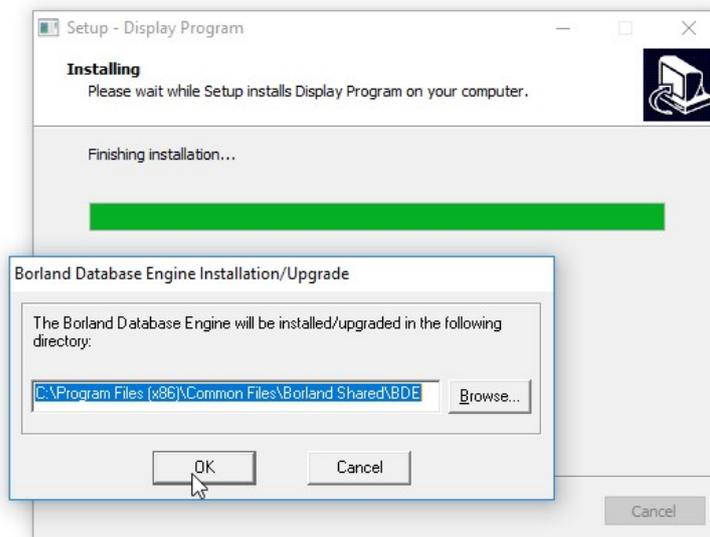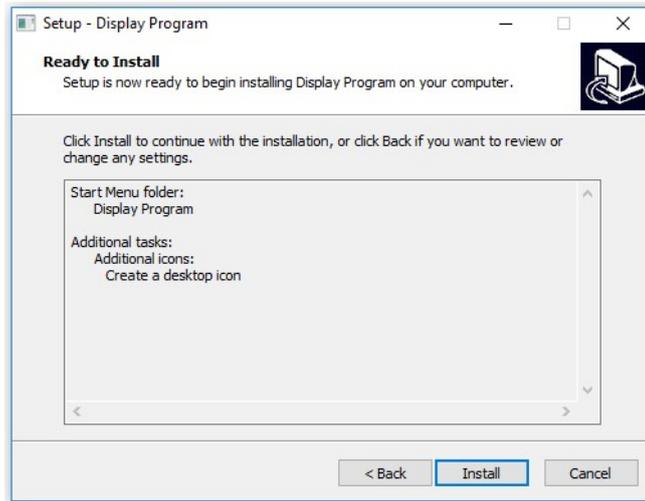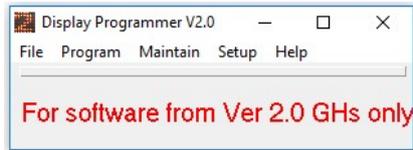
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*********************************************
        Display Programming Software Licence Agreement
*********************************************

ELECTRONIC CIRCUIT DESIGNS P/L NO-NONSENSE LICENSE
STATEMENT AND LIMITED WARRANTY
Electronic Circuit Designs P/L ("ECD") grants you the right to use this
ECD software
product ("Software"), including any accompanying documentation, in the
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◉ I accept the agreement
◯ I do not accept the agreement

[< Back] [**Next >**] [Cancel]

Setup - Display Program

Select Start Menu Folder
Where should Setup place the program's shortcuts?

Setup will create the program's shortcuts in the following Start Menu folder.

To continue, click Next. If you would like to select a different folder, click Browse.

[Display Program] [Browse...]

[< Back] [**Next >**] [Cancel]

Setup - Display Program

Select Additional Tasks
Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Display Program, then click Next.

Additional icons:

☑ Create a desktop icon

[< Back] [**Next >**] [Cancel]

Step 4: Double click to on the desktop to run the program

Step 5: Connect USB Serial dongle to the USB cable, then the cable to computer's USB port. Take note of the serial port number (must be registered from 1 – 4, see page 3 "Dongle Installation Instruction").

Step 6: Click "Setup – Serial Communications' and make sure correct serial port number has been selected, then click OK button.

Now it is ready to follow "Dot matrix Indicator Programming" instruction at page 1.