OMNICODER[®] PROGRAMMING TOOL PN 60031-101

Introduction

The Omnicoder[®] programming tool is designed to make the re-programming of the Omnicoder Encoder as simple as possible. It is powered by the USB port of a laptop computer and uses a special data cable to transfer the new resolution to the encoder. Omnicoders come from the factory pre-programmed with a resolution of 1024 counts per turn and can be changed to any whole number value from 1 to 10,000. Changing the resolution only takes a matter of a few seconds once the Omnicoder is attached to the computer.



Features

- Easy set-up and installation of software
- Simple, visual connection verification
- Encoder comes pre-tested and programmed at 1024 cpt
- Just type in your new resolution and click the program button
- Straightforward and fast reprogramming.

Applications

- Installations with frequent adjustments or set-ups like printing or packaging
- Plant maintenance where you don't know which encoder resolution to stock for repairs. With the Omnicoder you just stock one and program it as needed.

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• As a way to do electronic line shafting, especially when you have an unusual ratio between shafts, like 5:8 for example.

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INSTALLATION AND PROGRAMMING

Installing the USB Driver and Software

- Step 1 Go to https://www.sensata.com/resources/omnicoder-programming-software to download the software
- Step 2 Click on the "Windows: USB Virtual COM Port Driver" and save the file to your hard drive. (Omnicoder[®] Programming is currently supported on Windows only).
- Step 3 Unzip the USB driver to a directory on your hard drive. This will ensure that you have a clear USB port available for use by your Omnicoder[®]. You are now ready to install the Omnicoder[®] software.
- Step 4 Run "setup" to install drivers
- Step 5 From the Omnicoder® software webpage, click on the "Windows: Omnicoder® Program" and save the file to your hard drive
- Step 6 Unzip the program to a directory on the hard drive.
- Step 7 Run "setup" to install the Omnicoder® Programming software.
- Step 8 The program should start automatically. You have finished installing the software and are now ready to program your Omnicoder[®]. (All Omnicoders[®] are shipped pre-programmed for 1024 CPT). Below is a screen shot of the program interface.



Programming the Omnicoder®

- Step 9 Using the Omnicoder[®] programming cable (60031-101), plug the USB connector end into your PC. The red X (No cable detected) should change to a green check mark, indicating that the USB Programming Module was detected. (This may take up to 15 seconds)
- Step 10 Plug the M18 connector end into the Omnicoder[®] unit. The red X (No encoder detected) should change to a green check mark, and the current Omnicoder[®] resolution will be displayed on your computer screen.
- Step 11 To change the Omnicoder[®] resolution, enter a new resolution as an integer between 1 and 10000 in the box labeled "Program New Resolution." Then click the "Program" button. In a few seconds, the new resolution will be uploaded to the Omnicoder[®]. The Omnicoder[®] is now programmed and can be disconnected. To program a new resolution, repeat Steps 9-11

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