

Card Encoder Kit 20-7053 (75-0050) Procedure Guide



NOTE: Before you use this instruction, make sure you have the latest revision. Check the revision level of this document against the most current revision found at <http://www.opwglobal.com/opw-fms/tech-support/manuals-how-to-videos> . Download the latest revision if necessary.

Components

The 20-7053 PC Based Card Encoder 115V Kit includes:

- 75-0050 Mag Card Reader/Writer 110V
 - Reader/Writer
 - Power Adapter (120V AC IN, 9V DC/1.0A OUT)
 - Utility Disk (Workshop software application, user guides)
 - Magnetic Test Card
 - User Manual
- M00-75-0050 (this procedure guide)

Connect to Your PC

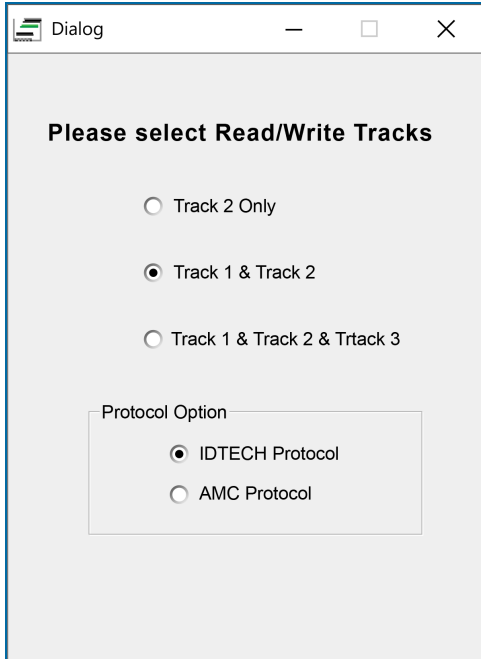
If your PC does not have a serial port input, it will be necessary to have a USB Serial Port Converter to connect the Card Encoder to your PC. A USB Serial Port Converter is available from OPW Fuel Management Systems (Part # 75-2030).

Installation

Refer to the Quick-start Manual and User Manual located on the enclosed CD. The User Manual has information on the Card Encoder installation and operation and the Workshop software application installation and operation. Make sure you have the most recent Workshop software application and software updates. Go to the IDTECH website at <http://www.idtechproducts.com/> and search the Knowledge Base for IDWA-332312.

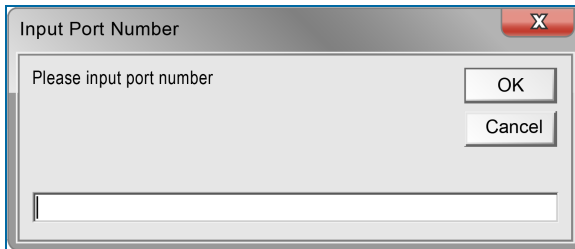
Setup

After the Installation has been completed, open the Workshop software application.



The "Dialog" screen will open. Make sure the radio button for **Track 1 & Track 2** is selected.

In the *Protocol Option* box, make sure that **IDTECH Protocol** is selected.

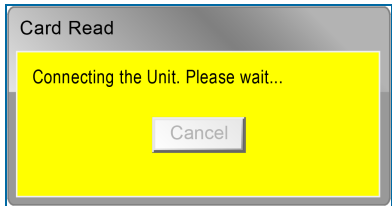


If the Card Encoder is not automatically detected you will be prompted to input the port number where the Card Encoder is connected.



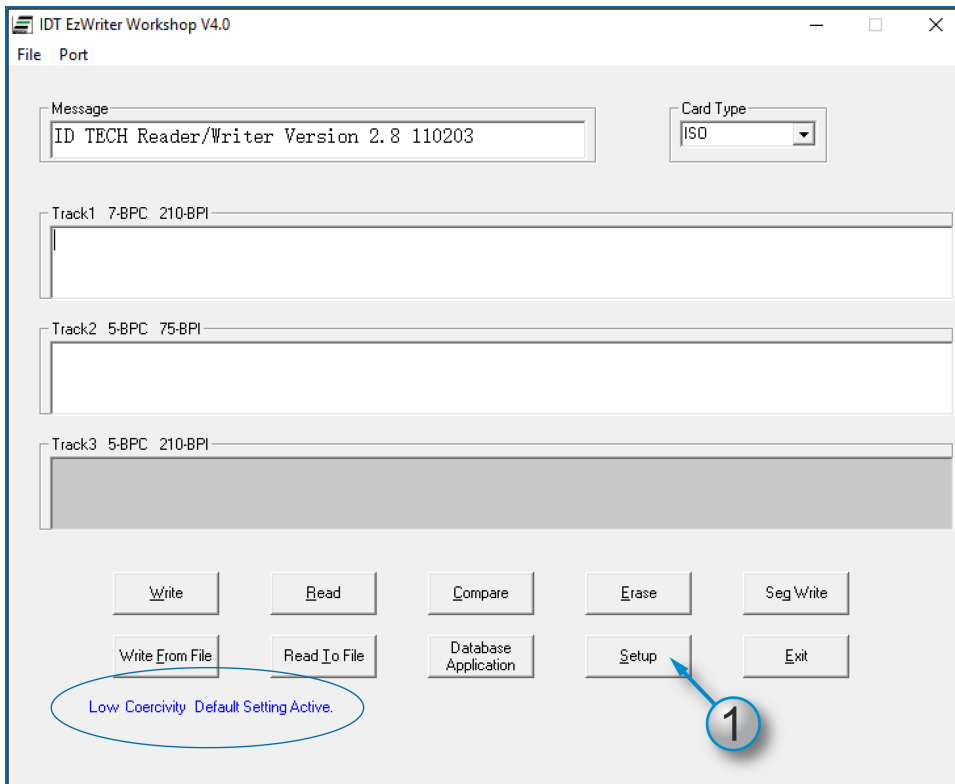
TIP: To find the port where the device is connected, navigate to your computer's **Device Manager**, open **Ports** and look for the Encoder in the list.

Enter the Port number into the text field and click OK. A Connection dialogue will open.



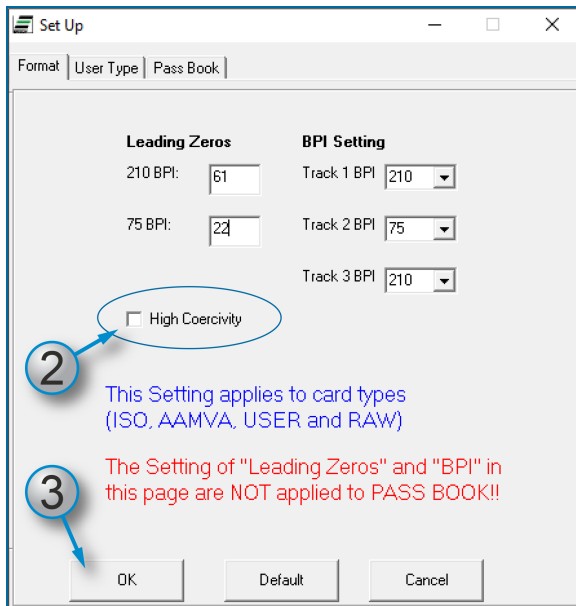
When the software connects to the Encoder, the Workshop software Main Screen will come into view.

High Coercivity (Hi-Co) Card Setup

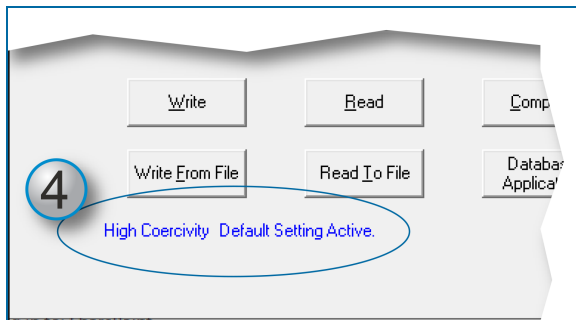


To set the software default to read High Coercivity Cards:

1. Select the **Setup** button. The "Set Up" screen will come into view.

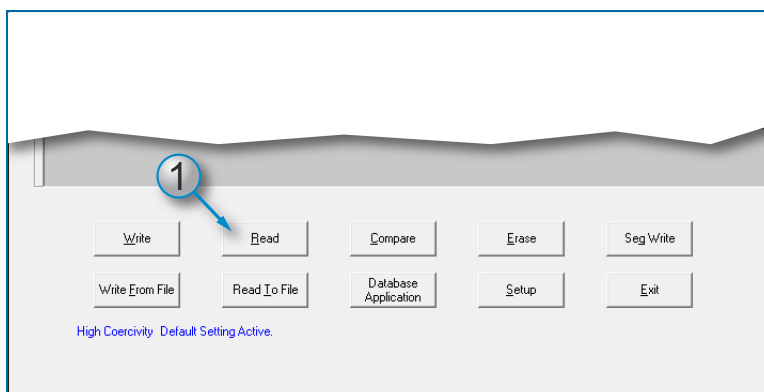


2. Select the **High Coercivity** checkbox to make High Coercivity the default.
3. Click **OK**. This will take you back to the Main Screen.

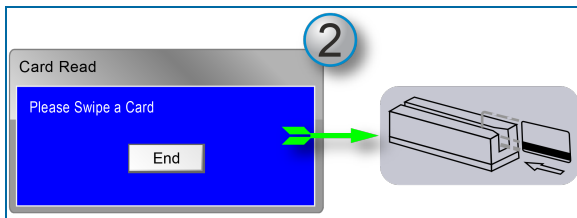


4. The Main Screen will show **High Coercivity Default Setting Active**.

Read Data from Cards



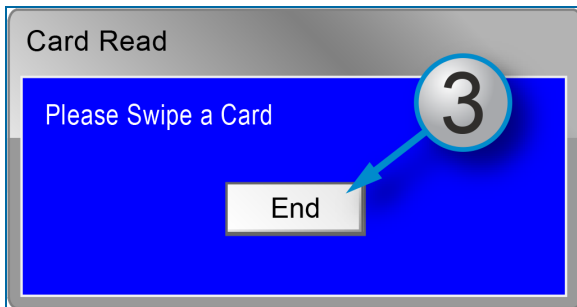
1. Click the **Read** button on the Main Screen. The *Read Card* dialogue will come into view.



2. Swipe the card in the Encoder. A "Read OK!" message will come into view in the *Message* field and the card's information will show in the *Track* fields on the Main Screen. When the Read Card dialogue comes back into view you can swipe more cards.



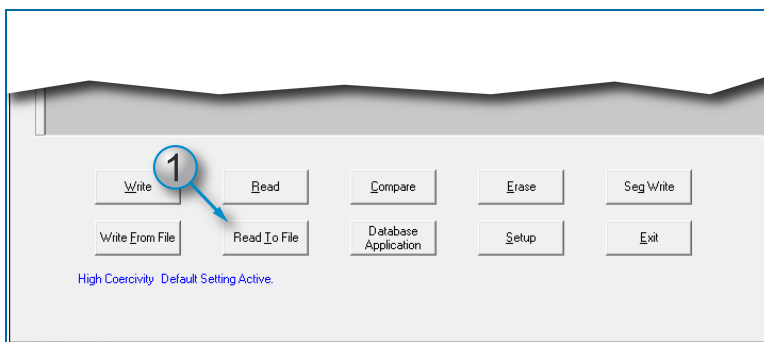
NOTE: A sticker on the Encoder shows the orientation of the card and the direction to swipe.



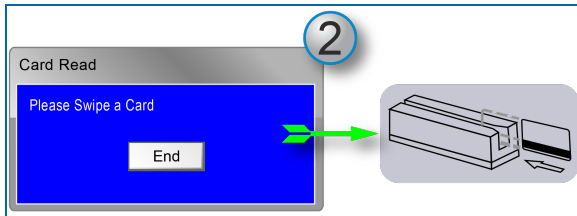
3. When all applicable cards have been read, Click **End**.

Read Multiple Cards into a File

The Card Encoder can read card numbers one after the other to store files to program at a later time.



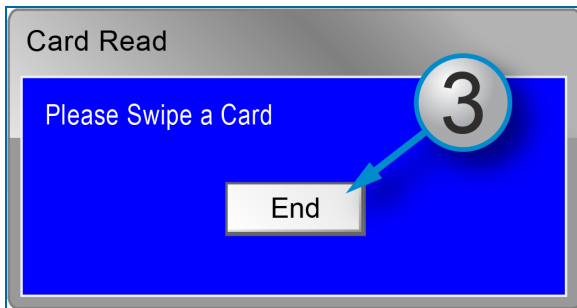
1. Click the **Read to File** button on the Main Screen. A Windows® Save As dialogue will open. Select a location and file name for your card file, then click **OK**.



2. When prompted, swipe a card through the encoder. The card information is written to the file. You will be prompted again to swipe a card. Each card that is swiped is written to the file.

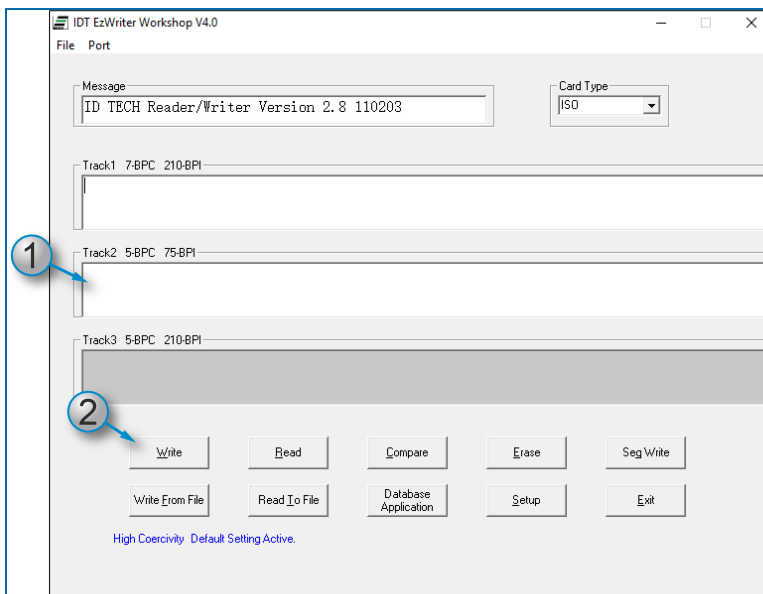


NOTE: A sticker on the Encoder shows the orientation of the card and the direction to swipe.



3. When all applicable cards have been read, Click **End**.

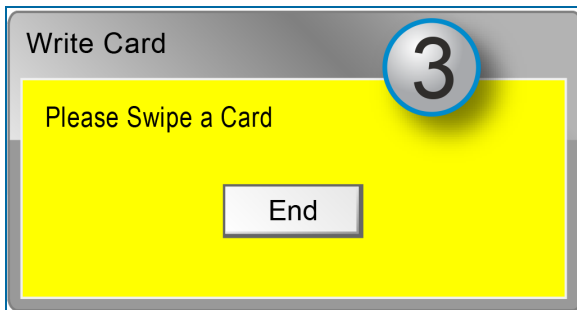
Write Data to a Card



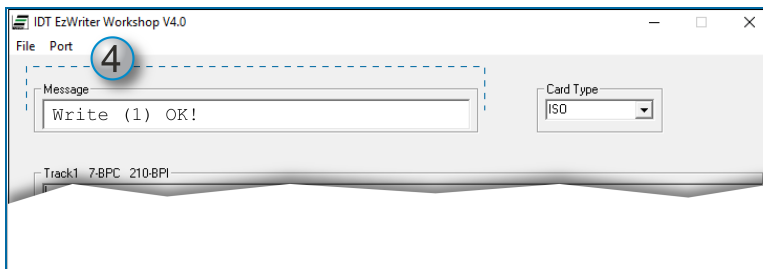
To write data to a card:

1. Enter the applicable card data in the **Track 2** field of the Main Screen.

2. Click the **Write** button. The Write Card dialogue will come into view.



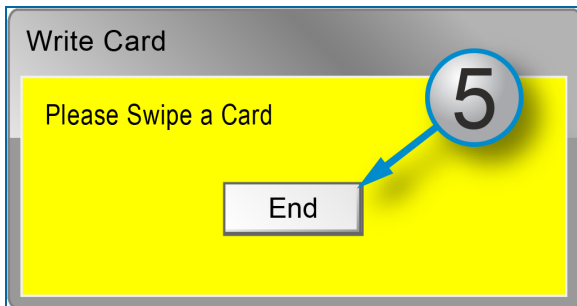
3. Swipe the card with the magnetic stripe down and opposite the side of the encoder with the LEDs.



4. When the information is stored on the card, the message "Write (1) OK!" will come into view in the **Message** field. You will be prompted again to swipe a card. Do steps 1 and 2 again for each applicable card.



NOTE: Each time a card is written to, the number in parenthesis in the *Message* field will increase to show the total number of cards that have been written.

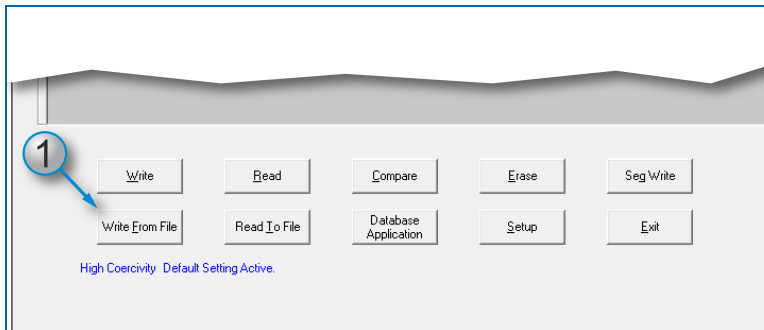


5. When all applicable cards have been written, Click **End**.



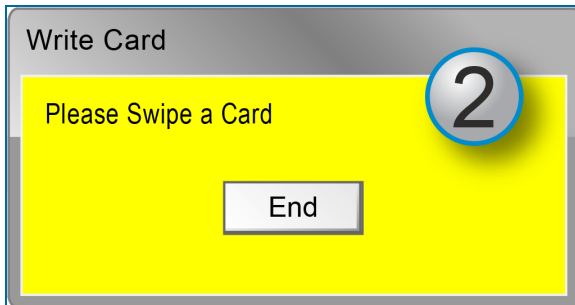
IMPORTANT: Use only Track 2 to enter card data. Use an equals sign (=) for the field separator.

Write Multiple Card Numbers from a File to a Card



Card number(s) can be written from a stored file to a card(s).

1. Click the **Write from File** button. A Windows *Open* dialogue will open. Select the applicable saved file and click **Open**. The Write Card dialogue will come into view.



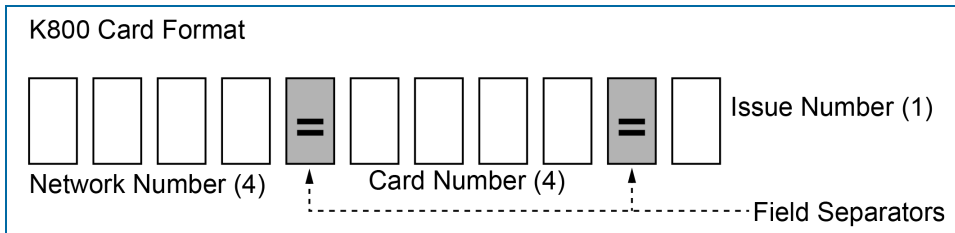
2. Swipe a card to write the data from the file to the card. You will be prompted again to swipe a card until the **Cancel** button is clicked. This will program the card that is swiped with the first card number saved in the file and will continue with every saved card number until the "End of File" message box comes up..



NOTE: Seq Write is not supported for OPW formatted cards.

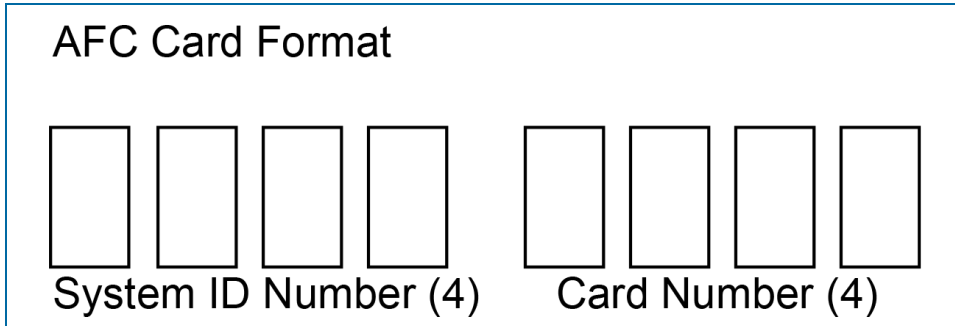
OPW Card Formats

K800 Card Format



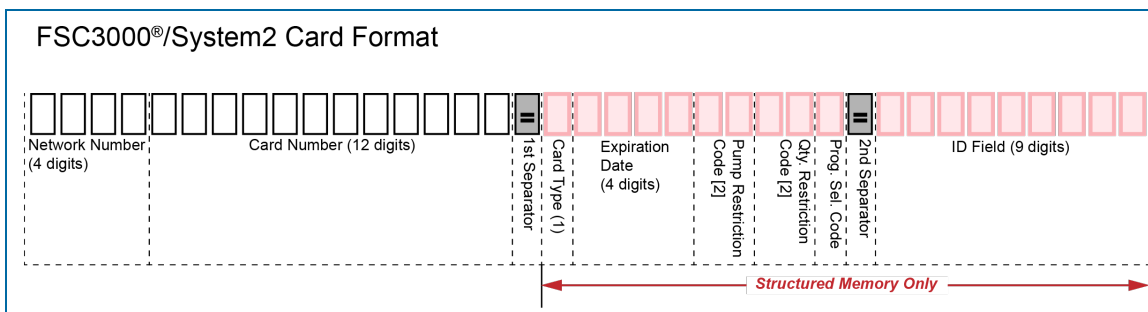
The K800 card format has a 4-digit network number, followed by a 4-digit card number and a 1-digit issue number.

AFC Card Format



The AFC Card Format has a 4-digit system ID number, followed by a 4-digit card number. There are no field separators in the AFC Card Format.

System2/FSC3000 Card Format



System2 and FSC3000 fuel site controllers don't require a specific card format. They can accept any Track 2 encoded magnetic card. These systems read the first 19 digits, or up to the first field separator (indicated by an "=" sign), as the card number.

There is a System2 card format that can be used when it is desired to have the system validate the network number. Fields beyond the first separator ("=") are used only by the Structured Memory FSC software which is no longer available. Enter zeroes in these fields.