Hopper Test Software User Manual

Money Controls

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1. Diary of Changes

Issue 1.0……July 2003

Issue 1.1……June 2004

2. Introduction

Hopper Test has been developed to enable users to test the following products:-

- MK1 Serial Compact Hopper (SCH1)
- MK2 Serial Compact Hopper (SCH2)
- Serial Universal Hopper

3. Kit contents

The complete kit consists of the following:

- PC interface pod
- CD containing Hopper Test software package.
- +12 DC loom (red and black)
- PC to pod loom (blue)
- Loom for Hopper.

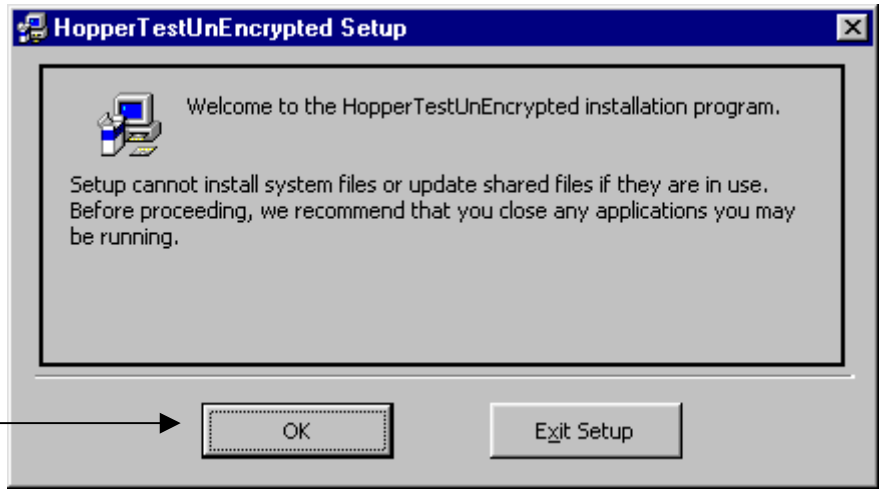
4. Hopper Test Software

4.1 Software Installation

Place the CD-ROM into your CD-ROM Drive and the software should start to install automatically. If it does not, run the ccComms.exe program on the CD and follow the on screen instructions.

Click on OK.

Figure 1: Hopper Test Software installation



Click on the icon to continue.
You can change the directory that the software is installed to if desired.

Figure 2: Hopper Test Software installation (cont.1)

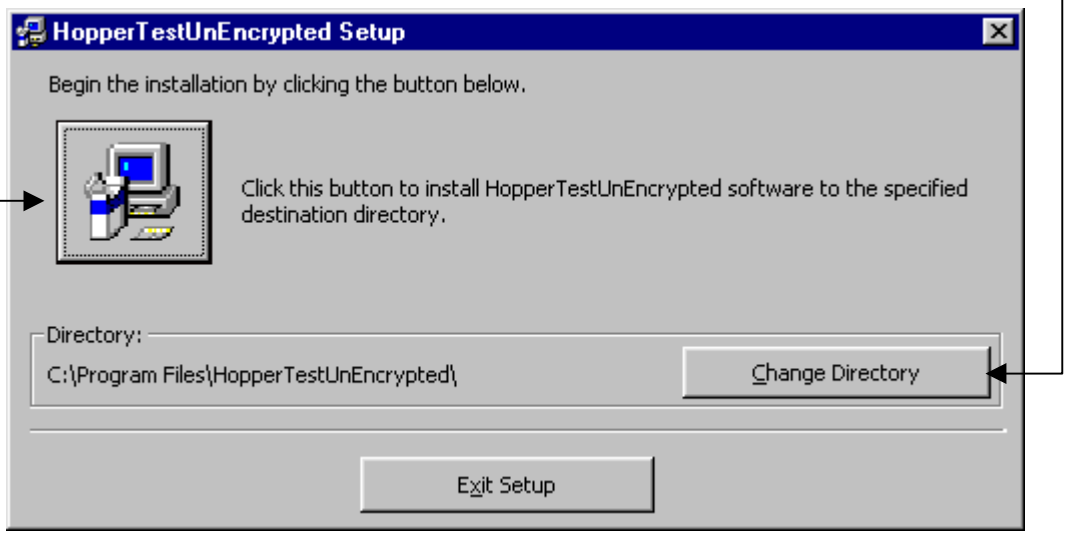
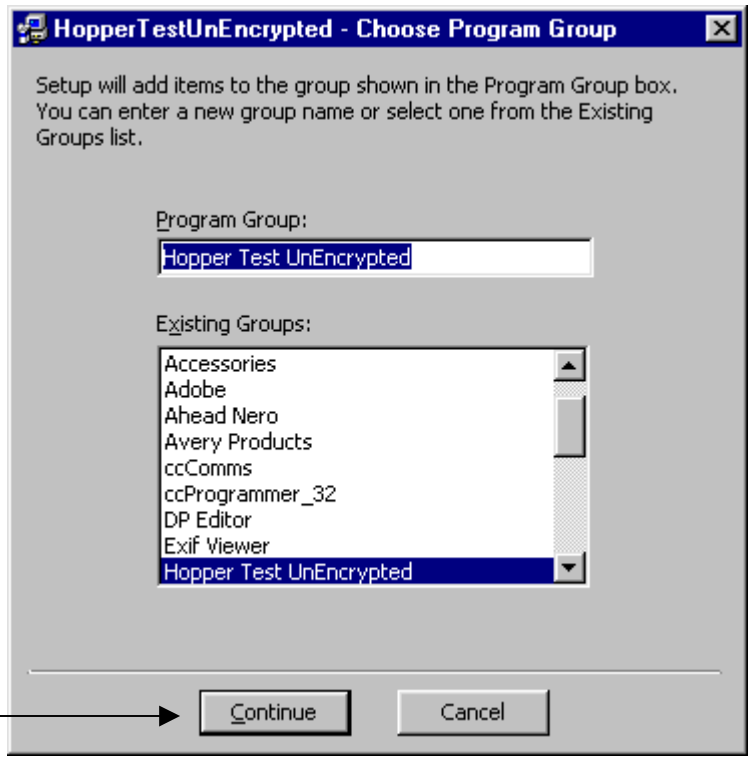


Figure 3: Hopper Test Software installation (cont.2)



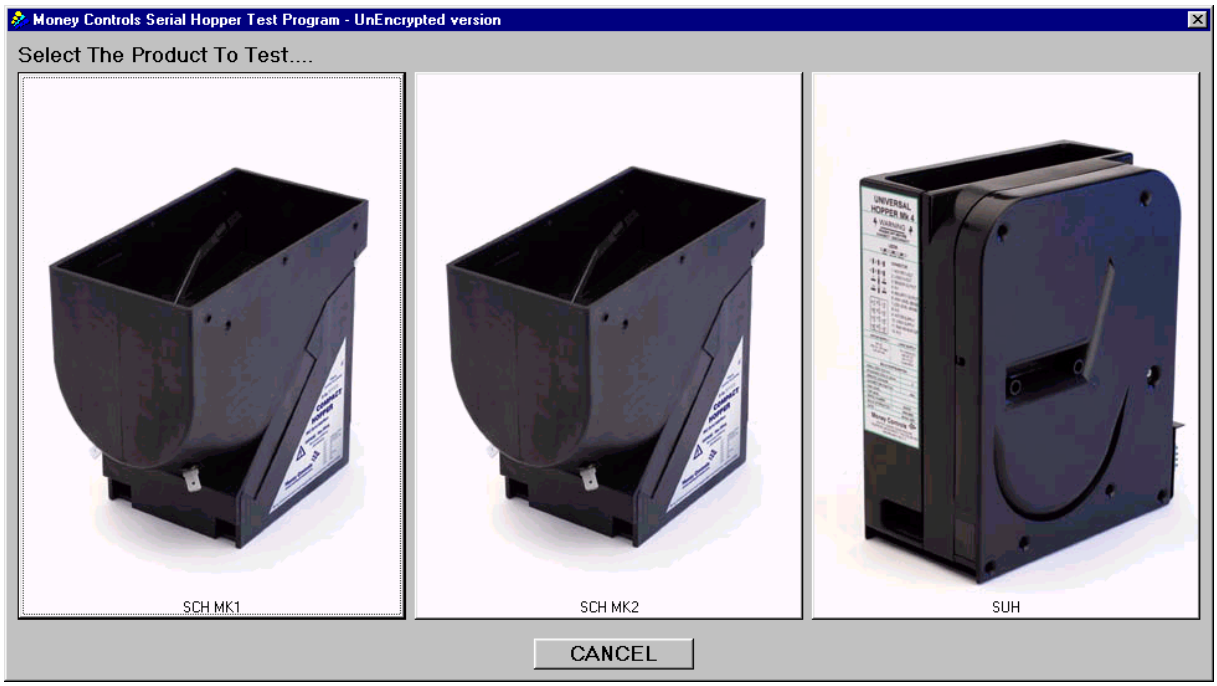
Click on Continue and then select OK. The software is now installed.

Figure 4: Hopper Test Software installation (cont.3)

4.2 Product Select Screen

The product select screen is the first screen visible when the program is running. In this screen you can choose which product you have attached by placing your mouse cursor over its image and clicking on it.

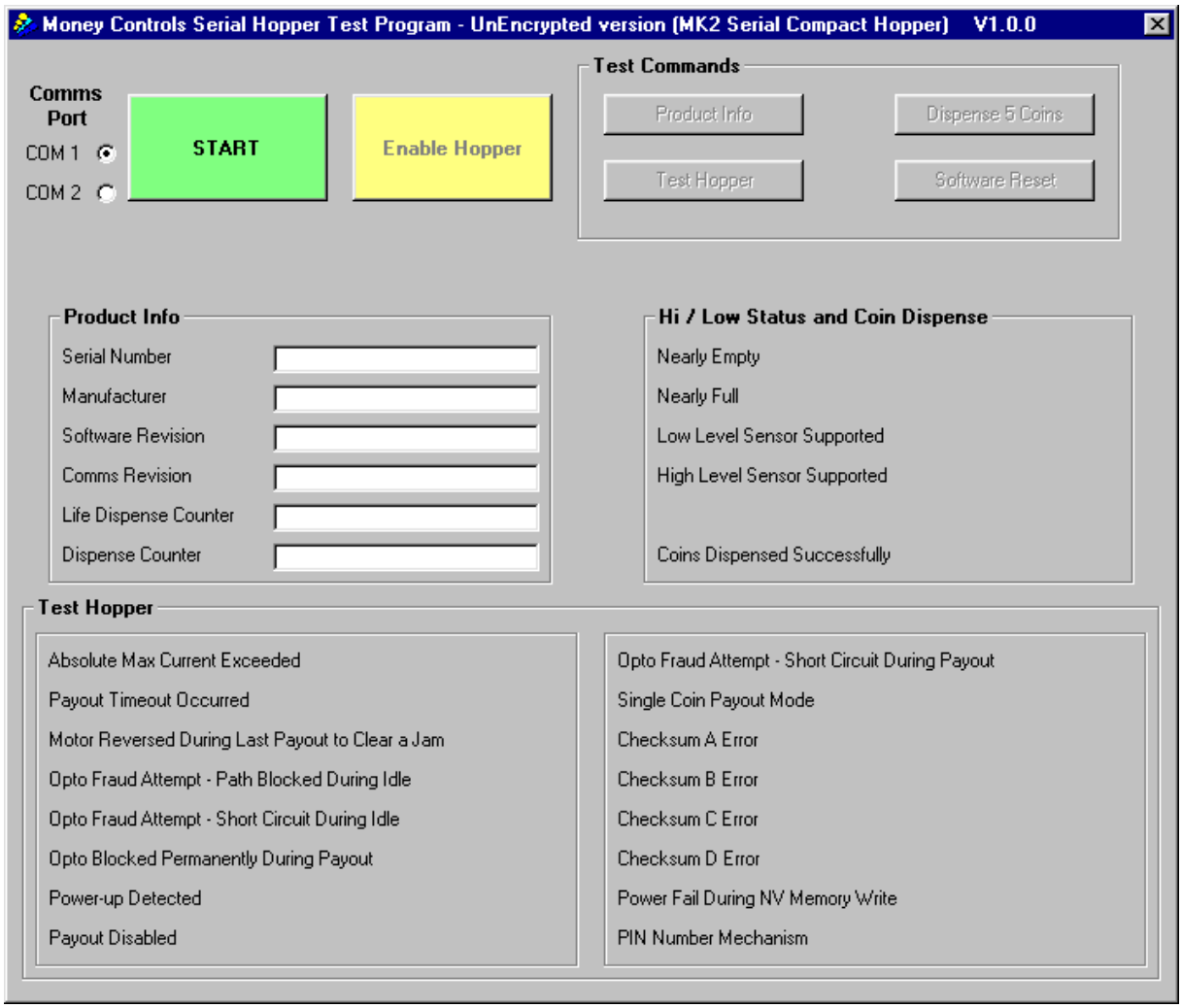
Figure 5: Product Select Screen



4.3 Test Screen

Once the product has been selected, you will enter the test screen. In this example the MK2 Serial Compact Hopper screen has been chosen.

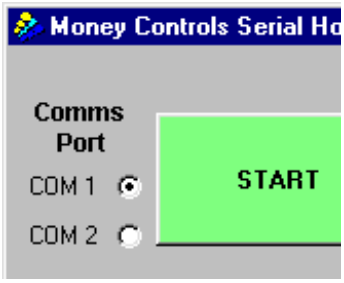
Figure 6: Test Screen



4.4 Comms set up

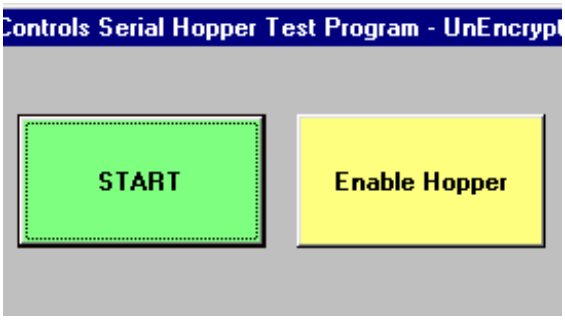
Ensure that the Hopper is connected and that there is power.
Select the relevant COM port which your pod is connected using the Comms Port selection at the top left of the screen (*see Figure 7*).

Figure 7: Comms set up



4.5 Start up

Figure 8: Start Up



- **Start**

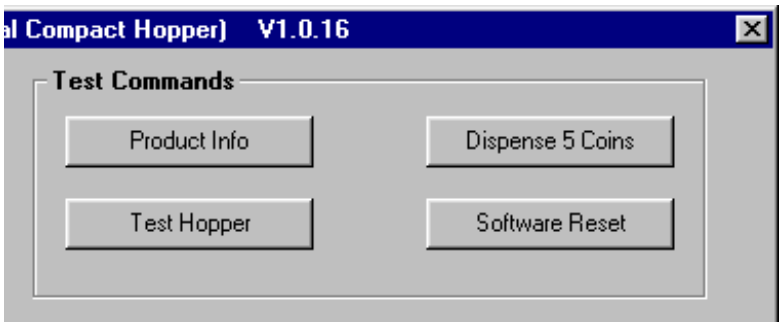
Once the correct com port has been selected, press *Start*.
The Enable Hopper button will become selectable.

- **Enable Hopper**

Select *Enable Hopper* and the *Test Commands* will become available for you to use.

4.6 Test Commands

Figure 9: Test Commands



- **Product Info**

Acquires information from the Hopper. The information is then displayed in the Product Info box on the test screen.

- **Test Hopper**

Runs a continuous polled test until the button is pressed again. This information is displayed as either a tick or a cross in the 'Test Hopper' boxes on the test screen. This information can be reset using the *Software Reset* button.

- **Dispense 5 Coins**

When selected the hopper dispenses 5 coins then stops. The hopper stops after a period of time if no coins are dispensed.

- **Software Reset**

This resets all the information in the *Test Hopper* boxes. The hopper must be enabled following this reset using the *Enable Hopper* button.

4.7 Information index

Product Info

- **Serial Number –** Serial number of the hopper.
- **Manufacturer –** Name of manufacturer.
- **Software Revision –** Hoppers internal firmware revision.
- **Comms Revision –** Version of ccTalk used.
- **Life Dispense Counter –** Total number of coins paid out in hoppers lifetime.
- **Dispense Counter –** Number of coins paid out since last reset. This counter is re-settable but not with this software.

Hi / Low Status and Coin Dispense

The following flags are only used if level sensors are attached and supported.

- **Nearly Empty –** Signal from low-level sensors.
- **Nearly Full –** Signal from high level sensors.
- **Low Level Sensor Supported –** Indicates whether this sensor is supported.
- **High Level Sensor Supported –** Indicates whether this sensor is supported.
- **Coin Dispensed Successfully –** Indicates whether any errors have been seen during pay out.

Test Hopper

- **Absolute Max Current Exceeded –** Maximum current for hopper exceeded.
- **Payout Timeout Occurred –** No coin has been paid out during the specified time limit. Usually seen when hopper is empty.
- **Motor Reversed During Last Payout to Clear a Jam –** Indicates a reverse.
- **Opto Fraud Attempt – Path Blocked During Idle –** Indicates blocked opto while motor is stationary.
- **Opto Fraud Attempt – Short Circuit During Idle –** Indicates a fraud attempt such as light being shone into opto's whilst motor is stationary.
- **Opto Blocked Permanently During Payout –** Indicates a permanent jam in opto whilst motor running.
- **Power-up Detected –** Power up of hopper seen.
- **Payout Disabled –** Shows the status of the *Enable Hopper* button.
- **Opto Fraud Attempt - Short Circuit During Payout -** Indicates a fraud attempt such as light being shone into opto's whilst motor running.
- **Single Coin Payout Mode –** Shows status of this flag although the Hopper Test Software only pays out in multi coin mode.
- **Checksum A Error –** Internal counter error.
- **Checksum B Error –** Internal counter error.
- **Checksum C Error –** Internal counter error.
- **Checksum D Error –** Internal counter error.
- **Power Fail During NV Memory Write –** Power disrupted whilst writing to E^2.
- **PIN Number Mechanism –** Shows status of this flag although the Hopper Test Software does not request PIN number verification.

This manual is intended only to assist the reader in the use of this product and therefore Money Controls shall not be liable for any loss or damage whatsoever arising form the use of any information or particulars in, or any incorrect use of the product. Money Controls reserve the right to change product specifications on any item without prior notice.