Installation Instructions

Honeywell

System 57
Engineering Interface Software (EIS)

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1. INTRODUCTION

The System 57 Engineering Interface Software (EIS) is used to set the System 57 Control System rack configuration and operating parameters. The Setup Procedures are carried out on a PC which provides serial data communication with the rack. The software allows the rack configuration and parameters to be set using either a mouse and keyboard or direct from a prerecorded data file.

The necessary EIS required to run these procedures is provided on a USB flash drive and should be installed as indicated in the following sections. Before the installation of the EIS, however, ensure the computer meets the minimum requirements and that the EIS package contains the required information.

Once installed, the configuration software is ready for use. To help the user to learn how to use the software, a comprehensive on-line HELP system has been incorporated therfore no separate user manual has been written.

WARNING

The operation of the whole system depends on the configuration made using the EIS. Inappropriate settings may affect the safety critical operation of control cards or the whole system. The software shall only be used by persons familiar with the operation of gas detection devices and, in particular, with the operation of System 57. Default settings of sensor-specific parameters should only be changed in exceptional, justified circumstances. Do not change any parameter unless its meaning is clearly understood. Please contact Honeywell Analytics Limited if in doubt. If the system is used according to the EC-type examination certificate BVS 04 ATEX G 001 X observe the “Special conditions for safe use” as described in chapter 10 of the system manuals (part numbers 05701-M-5001 for the 5701 control system and 05704-M-5001 for the 5704 control system).

2. PERSONAL COMPUTER REQUIREMENTS

2.1 HARDWARE AND SYSTEM REQUIREMENT CHECK

The software must be installed on a PC with the following recommended minimum requirements:

a. 80486 33 MHz processor or better.

b. Hard Disk with 3Mb free space.

c. VGA or compatible screen.

d. 8Mb RAM.

e. Mouse.

f. One unused communications port to allow the Engineering Card Serial Port of the System 57 Control System Rack to be connected to the computer.

g. Microsoft Windows 95, 2000 and XP.

2.2 PACKAGE CONTENTS

The following items are contained in the package:

a. This Manual.

b. PC to Rack Connecting Cable.

c. EIS Software, supplied on a USB Flash Drive.

Note: The EIS software upgrade package does not include the PC to rack cable

2.3 BACKUP COPIES OF DISK

Before installation it is recommended that a backup copy is made of the master disk.

2.4 READ THE README FILE

Where there have been changes to the software since publication of the manual, these changes are listed in a separate README file.

3. INSTALLING THE ENGINEERING INTERFACE SOFTWARE

Check the disk for a README file, and if one is present, read the file for any new information before installing the software.

To start SETUP, proceed as follows:

(1) Insert the USB Flash drive into any available USB port.

(2) For Windows XP operating systems, 'Autoplay' will be initiated.

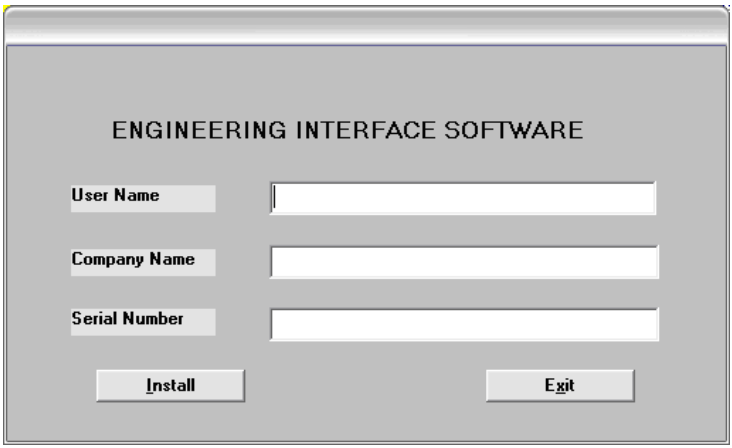
(3) Select 'Run System 57 EIS setup' from the menu, then click OK.

(4) If for any reason the steps above fail, or you are using an Operating System other than Windows XP, then the setup application can be run manually.

(a) Goto 'My computer', select and open 'Removable disk' by double-clicking it with the left mouse button.

(b) Navigate through the directories /EIS_5v4/Setup.exe and run the setup application.

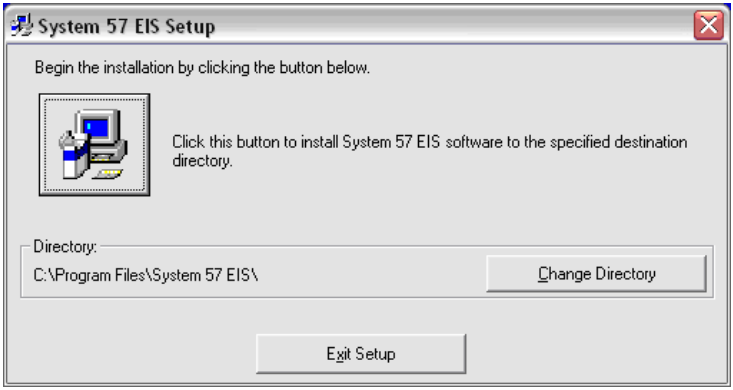
(5) The following window will be displayed



3. INSTALLING THE ENGINEERING INTERFACE SOFTWARE

(6) Enter USER NAME, COMPANY NAME and SERIAL NUMBER

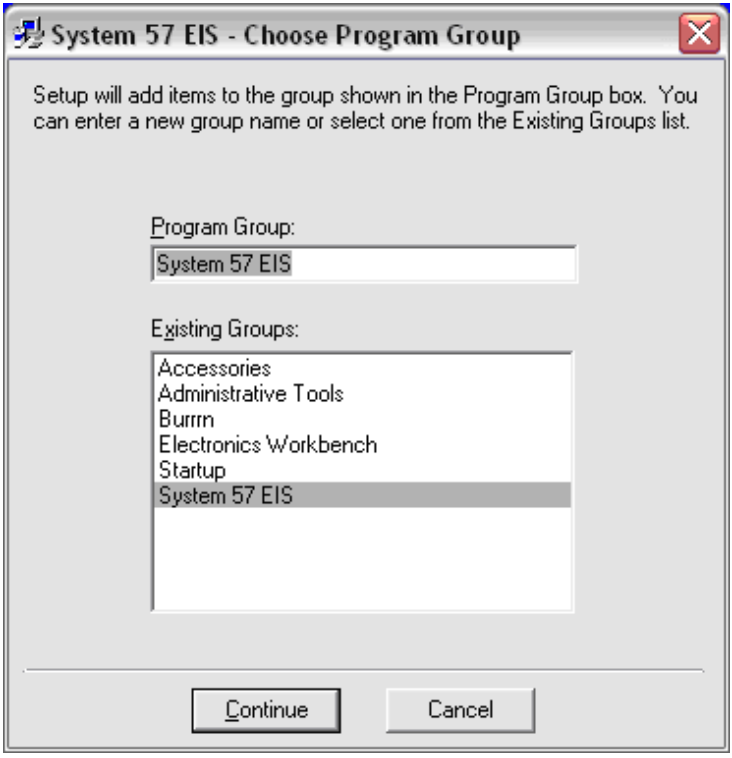
Note: The serial number can be found on a sticker attached to the USB Flash Drive. If installing a software upgrade version, use the same serial number that was supplied with the original installation disk.



(7) Click the button to accept the default directory path, or select an alternative by clicking the 'Change Directory' button.

3. INSTALLING THE ENGINEERING INTERFACE SOFTWARE

(8) Click OK to continue, or 'Exit set-up' to abort installation.



(9) It is recommended that the default Program Group is accepted.

(10) The installation has completed successfully, click OK.

4. RUNNING THE ENGINEERING INTERFACE SOFTWARE

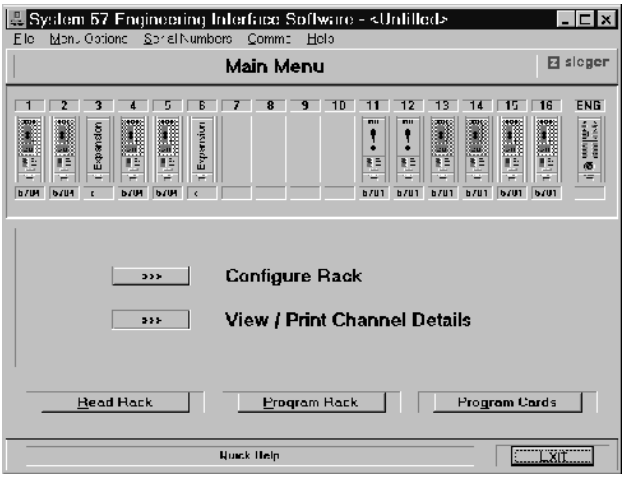
To run the Engineering Interface Software, proceed as follows:

(1) From the Program Manager display, select Sieger Applications and then double click the System 57 EIS_vx.y icon.

or

Click on Start, select Programs, Sieger Applications and then the System 57 EIS_vx.y.

(2) Check that the display shows:

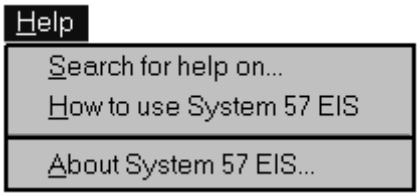


5. HELP MENUS

5.1 GENERAL

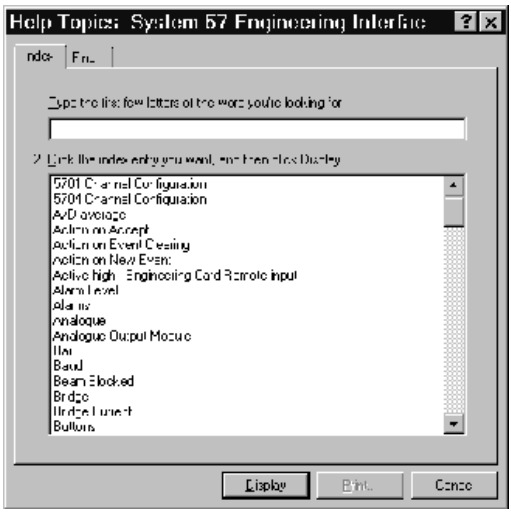
The System 57 EIS has a comprehensive on-line help facility available for the operator to use, thus eliminating the need for an additional manual.

The help facility is available from the pull down menu on the **Main Menu**, **Configure Rack** and **View/Print Channel Details** screens. The following options are available:



5.2 SEARCH FOR HELP ON.....

Selecting **Search for help on ....** will cause cause a screen similar to the following to be displayed:



5. HELP MENUS

By typing a search word into the upper selection box, or selecting a topic from the lower selection box, and then selecting **Display/Show Topic**, the help titles for that subject will be highlighted. A particular topic can then be highlighted and the **Display/Go To** button operated. Detailed help information on the selected subject will now be displayed.

5.3 HOW TO USE SYSTEM 57 EIS..

Selecting will cause the following screen to be displayed:

Clicking on any of the displayed topics will display information relating to that topic, with links that take the user into more detailed information and other related topics.

5.4 CONTEXT SENSITIVE HELP - F1

The help information for a particular configuration parameter can also be accessed directly by selecting the area of the screen where the parameter is displayed and then pressing the F1 function key.

Note: For the configuration menu screens, this is the only method of entering the help faculities.

6. OPERATION OVERVIEW

The following text is a brief overview of the procedure for reprogramming an existing configured rack of System 57 control cards. This is typical for changing a particular setup facility. A more comprehensive guide is given in the help facility with the EIS.

(1) Start the System 57 EIS.

(2) Connect the supplied cable to the PC and to the System 57 rack that requires reprogramming.

(3) From the main menu selecty **Read Rack**. The System 57 details will be read by the program and once completed, the main menu virtual rack display will reflect the actual rack layout.

(4) From the pull down File menu at the top of the screen, select the **Save rack As...** function.

(5) Enter the name you wish to identify the rack configuration by, maintaining the **.rck** file extension, and click on **OK**. This saved file will be useful if difficulties are encountered while carrying out the following procedures and will enable the rack to be returned to its original configuration condition.

(6) **If reqired, the PC can now be disconnected from the System 57 rack and moved to a more convenient area for the following actions.**

(7) From the main menu select **Configure Rack**.

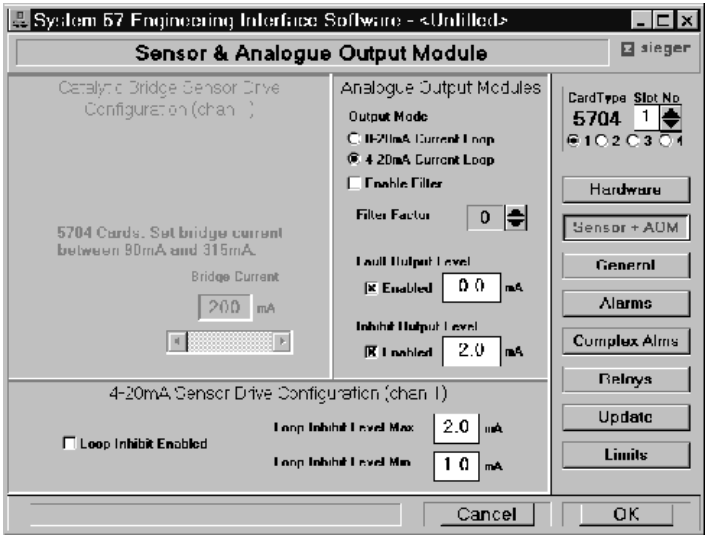
(8) Highlight the control card that requires the configuration change by clicking the left mouse button once with the mouse pointer over the required control card and then selecting **Configure Selected Card**.

or

Click the right mouse button once with the pointer over the required card.

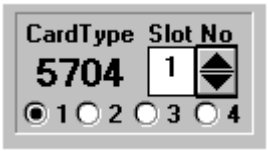
5. HELP MENUS

(9) A series of screens are available which are selectable from the titles shown on the right hand side of the screen. Clicking the left mouse button once with the pointer on a title will cause that tiltles parameters that may be modified by the EIS to be displayed.



(10) The required parameters can now be changed.

(11) If other control cards require changes, these can be accessed using the up (▲) and down (▼) buttons at the top right of the screen.



(12) Once all changes have been completed, click **OK** and the screen will return to the **Configure Rack** screen.

5. HELP MENUS

(13) At this point additional control cards can be added to the rack. The easiest way to configure these control cards is to copy an existing card configuration as follows:

a. Highlight the control card to be copied.

b. Select **Copy Card**.

c. Highlight the free slot that the new card is to be fitted to.

d. Select **OK**.

e. Specific channels on 5704 control cards can be copied in a similar manner.

(14) Once all changes have been completed, click on **Back** and this will cause the display to return the the **Main Menu** screen.

(15) From the pull down **File** menu at the top of the screen, select the **Save rack As.....** function.

(16) Enter a different name to identify the new rack configuration from the one used previously, maintaining the **.rck** file extension, and click on **OK**.

(17) Select **Program Cards**.

(18) Click on each card that needs to be reconfigured. One or a number of cards may be selected together.

(19) Ensure that the PC is connected to the rack by the cable or reconnect the PC to the rack if disconnected at Step 6.

(20) Select **OK**. This will start the reprogramming of the rack control cards.

5. HELP MENUS

(21) Most changes to the control cards are implemented once the programming is complete by an automatic software reset of the card(s) that were reprogrammed.

Certain changes however, require the control cards to have a power on reset before the changes are implemented. These type of changes are indicated in the highlighted box of the EIS display after reprogramming is complete.

To reset these control card changes, either switch off the power supply to the whole system or undo the two control card front panel securing screws and using the extraction tool, partially pull the card(s) out of the rack and then reinsert the card. Secure the control card(s) back in the rack with the two front panel securing screws.

(22) Reconfiguration is now complete.

USER NOTES

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