
Honeywell

Excel 50

CONTROLLER

HONEYWELL EXCEL 5000 OPEN SYSTEM

USER GUIDE

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EN2B-0137GE51 R0109

Manual abstract:

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.....63 4 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE REVISION OVERVIEW The following pages have been changed from the previous issue of this document: page throughout change All references to GSM modem have been modified to reflect obsolescence. ABOUT THIS USER GUIDE This Excel 50 controller can be used in two different ways: 1. The Excel 50 controller can be used with embedded applications. Preconfigured applications stored in memory in the application module are selected by entering a specific code via its MMI or an external interface. The Excel 50 controller can also be used with standard or custom applications created with the CARE software package and downloaded into the controller.

Custom applications may have different screens and sequences than are shown in this document. The screens show here must be considered only as examples. 2. Differences between these two uses of the Excel 50 are noted where appropriate. NOTE: The format of the date is determined by the Engineering Units: -- US - mm/dd/yyyy -- Europe - dd.mm.yyyy The start-up sequence is an exception to this: The date in the start-up sequence must always be entered in the European format as shown above. 5 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE 6 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE OPERATOR'S TERMINAL 0000040c LCD DISPLAY FAST ACCESS KEYS C BASIC FUNCTION KEYS The Excel 50 controller incorporates an operator's terminal

featuring a keyboard and a display. Keyboard Basic function keys The keyboard has eight basic function keys and four fast-access keys. These twelve keys perform the following functions: Function CANCEL Escapes to the previous screen, cancels incorrect entries (unless you have already confirmed the entry using the ENTER key), or confirms alarm messages.

UP ARROW Moves the cursor to the previous line. DOWN ARROW Moves the cursor to the next line. RIGHT ARROW Moves the cursor to the next field of the current line. LEFT ARROW Moves the cursor to the previous field of the current line. PLUS Increases a numerical value by 1 each time the key is pressed or switches a digital status to the opposite status condition.

MINUS Decreases a numerical value by 1 each time the key is pressed or switches a digital status to the opposite status condition. ENTER Confirms any changes made or moves to the next screen. Fast-access keys Function Plant Displays data about the plant's current status. Time program Initially displays the password entry screen to provide access to change time program settings: System clock (current date, time, daylight savings dates), Daily time programs, Weekly time programs, Annual time programs. Data points / parameters Initially displays the password entry screen to provide access to information on: 7 EN2B-0137GE51 R0109 OPERATOR'S TERMINAL EXCEL 50 USER GUIDE Physical, remote and pseudo user addresses, parameters, system data, DDC program cycle time, buswide access and Flash EPROM.

Alarms Displays alarm information on: Alarm history, points currently in an alarm condition, critical and non-critical alarms. RESET A RESET can be achieved by pressing the following keys simultaneously: IMPORTANT After performing a RESET all data in the RAM and the configuration codes are lost. + DOWN ARROW and MINUS: Reboots the controller and starts the start-up sequence. A RESET can also be achieved by pressing the hardware RESET button at the rear of the controller housing under Terminal Block B. Display The display shows four lines of alphanumeric text with 16 characters per line. A typical screen contains fields, either a cursor or a blinking character, 'up' and 'down' arrows, and may look like the following example: Field name. In this User Guide, it is shown in a different font and within arrow brackets. Cursor. Can be moved with the arrow keys. Places where the cursor can be moved to.

*Gray arrows not visible on real display. <field name> NEW 06:00 AH1_occ 06:00 AH1_tsp 1 06:00 AH1_tsp Arrows indicate a list which can be scrolled with the up and down arrow keys. Specifies the number of pages the list will be scrolled when the right or left arrow key is pressed. Number can be changed with '+' and '' keys. Selected character blinking in display. In this User Guide, it is shown underscored. Its value can be changed with the '+' and '' keys. NOTE: If the string "*****" should appear, this means that currently no value is available. The field name is sometimes shown in this User Guide to make a screen easier to understand. Field names are not visible on the Excel 50 display.*

NOTE: The screens shown in this User Guide are examples and may differ slightly from the screens visible on your Excel 50 controller. 8 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE PASSWORD PROCEDURE The following fast-access keys are not password-protected: Plant Alarms A password is required before the following fast-access keys can be fully used: Time programs Data points / parameters The password allows access to sensitive data screens. NOTE: The password procedure will not be repeated in the following sections. Refer back to this page for guidance on the password procedure. For more information about the access levels, see section "Operator Access Levels".

NOTE: If no password or the level-2 password is entered, only those screens are displayed which the user may access at that operator access level. Entering the level-3 password enables you to access alg;C TODAY NEXT Like the previous screen, this next screen displays the next time program with its switching point, value/status and current day, date, and time. TODAY Function The 'TODAY' function allows the user to make an immediate, temporary change to the switching time point or the value/status without affecting the original time program.

When using the 'TODAY' function, the data point must have value/status and start and stop times assigned. Important The new start time will be within 24 hours of the current time.
*That means for example, that a start time of 10:00 a.m. entered at 10:27 a.m. will activate the temporary changes the next morning. The changed fields are valid for only 24 hours; they are automatically deleted after the stop time has been reached. If 'TODAY' has been selected, the screen will now display the password entry screen. Please Enter Your password **** NEXT NOTE: Changing a switching time point requires a level-2 or level-3 password. Enter the level-2 or level-3 password using the arrow keys and the '+' and '' key. Confirm with ENTER.*

Using the arrow keys, move the cursor to 'NEXT' and confirm with ENTER. The following screen appears. <time prg.> Today <user address> <user address> 1 <user address> Using the arrow keys, move the cursor to the user address to be changed temporarily. Confirm with ENTER. The following screen appears. <user address> 09:00 to 12:00 Value: ON SELECT BACK Change the time or value/status using the '+' or '' keys as required and use the arrow keys to move from field to field. Confirm with ENTER. <user address> 10:00 to 13:00 Value: ON SELECT BACK Once you have finished changing the values, use the arrow keys to move the cursor to 'SELECT' to return to the selection list screen. 12 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE 'BACK' to return to the default screen.
Confirm with ENTER. Example A normal day cycle is shown below. Day cycle: 06:00 ON 12:00 OFF 14:00 ON 20:00 OFF PLANT KEY AH01 MON 13.06. 10:27 TO: 12:00 ON TODAY NEXT 6:00 Time of the next change of state 12:00 14:00 20:00 6:00 Status ON OFF ON OFF Current time 10:27. ..11:59 12:00...
13:59 14:00...19:59 20:00... 5:59 t 12:00 14:00 20:00 For this day cycle, a 'TODAY' entry from 10:00 to 13:00 with the status ON has been made. The time of the next change has changed temporarily from 12:00 to 13:00. See the following figure. 0000094a Screen displays: Systime 10:27 Active in the next day AH01 MON 13.

06. 10:27 TO: 13:00 ON TODAY NEXT 6:00 Time of the next change of state 13:00 14:00 20:00 6:00 Status ON OFF ON OFF Current time 10:27...12:59 13:00...13:59 14:00...
19:59 20:00... 5:59 10:00 13:00 12:00 14:00 20:00 EN2B-0137GE51 R0109 13 0000095a Screen displays: Systime 10:27 t EXCEL 50 USER GUIDE TIME PROGRAM KEY Select the time program by pressing the 'Plant' fast-access key and changing the screens with 'NEXT' until the time program name to be changed appears in the first line of the screen. Press the 'Time program' fast-access key to change time program settings.
*The password entry screen will be displayed. Please Enter Your Password **** NEXT Changing the system time requires a level-2 or level-3 password. Refer to the section 'Password Procedure' for help with password entry. Enter the password. Confirm with ENTER.*
Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. 14 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE TIME PROGRAM KEY System Time The 'System Time' procedure is used to make changes to the time and the date which the Excel 50 controller uses for its control programs. Use the 'Daylight saving' function instead of the 'Date / Time' function to change the time in spring and autumn. System Time Daily Weekly Annual Using the arrow keys, move the cursor to the 'System Time' field. Confirm with ENTER. Setting Date and Time System Time Date / Time Daylight Saving Using the arrow keys, move the cursor to the 'Date / Time' field. Confirm with ENTER. The following screen appears. System Time Date: 13.

06.1997 Time: 10:28 BACK Using the arrow keys, move the cursor to the 'Date' or 'Time' field. Confirm with ENTER. System Time Date: 23.06.1997 Time: 10:28 BACK If 'Date' is selected: Set the date using the '+' or '' keys. Use the arrow keys to move from field to field. Confirm with ENTER. Use the arrow keys to move the cursor to 'BACK'. Confirm with ENTER to return to the previous screen.
NOTE: The date must be entered in the format determined by the Engineering Units: for example, 23. July 1997 must be entered as 23.07.1997 for Europe and 07/23/1997 for the US. Press the CANCEL key to abort the operation or to cancel an incorrect entry before ENTER has been pressed.
The value previously displayed will be restored. EN2B-0137GE51 R0109 15 TIME PROGRAM KEY EXCEL 50 USER GUIDE System Time Date: 23.06.1997 Time: 12:30 BACK If 'Time' is selected: Set the time using the '+' or '' keys. Use the arrow keys to move from field to field.
Confirm with ENTER. Use the CANCEL key to return to the previous screen. NOTE: The time must be entered in the following format: HH:MM in 24-hour clock format; for example: 9:30 a.m. must be 09:30 and 9:30 p.m. must be 21:30. Press the CANCEL key to abort the operation or to cancel an incorrect entry before ENTER has been pressed. The value previously displayed will be restored. Daylight Saving The actual dates on which daylight savings time starts and ends in a given year must be changed every year.

System Time Date / Time Daylight Saving Using the arrow keys, move the cursor to the 'Daylight Saving' field. Confirm with ENTER. The following screen appears. Daylight Saving Start: 25.03 End : 26.09 BACK Enter the dates on which daylight savings time starts and ends for the current year using the '+' or '' keys. Move from field to field using the arrow keys. Confirm with ENTER. NOTE: Press the CANCEL key to abort the operation or to cancel an incorrect entry before ENTER has been pressed. The value previously displayed will be restored.
Daylight Saving Start: 27.03 End : 26.09 BACK Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER to return to the start screen of the time program. 16 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE TIME PROGRAM KEY Daily Program System Time Daily Weekly Annual Using the arrow keys, move the cursor to the 'Daily' field in the main screen.
Confirm with ENTER. NOTE: The 'Daily' program contains daily time programs. EN2B-0137GE51 R0109 17 TIME PROGRAM KEY EXCEL 50 USER GUIDE AHU1 Daily MODIFY NEW DELETE COPY Using the arrow keys, move the cursor to 'MODIFY' to modify the daily time programs. 'NEW' to create a new daily time program. 'DELETE' to delete a daily time program.
'COPY' to copy a daily time program to another. Confirm with ENTER. Modifying a Daily Time Program AHU1 Modify Workday Weekend Shutdown 1 Using the arrow keys, move the cursor to the daily time program you wish to modify and confirm with ENTER.

Creating a New Switching Point AHU1 NEW 06:00 <user addr.> 06:00 <user addr.>1 06:30 <user addr.> Using the arrow keys, move the cursor to 'NEW'. Confirm with ENTER. AHU1 Workday <user addr.> <user addr.

> 1 <user addr.> Using the arrow keys, move the cursor to the user address to which the new switching point should belong. AHU1 06:01 Opt: sp01 20.0 °C OFF OK Modify the time, the value or the optimize flag of the new switching point using the '+' or '' keys (The optimize flag can be set to ON only if the user address is suitable for optimization). Use the arrow keys to move from field to field. Confirm with ENTER. Using the arrow keys, move the cursor to 'OK' and confirm with ENTER to add the new switching point to the current time program. 18 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE TIME PROGRAM KEY Modifying or Deleting a Switching Point AHU1 NEW 06:00 <user addr.> 06:00 <user addr.>1 06:00 <user addr.

> Using the arrow keys, move the cursor to the switching point you wish to modify or delete. Confirm with ENTER. AHU1 <user addr.> 06:00 20.0°C Opt: OFF DELETE Modify the time, the value, or the optimize flag of the switching point.

Using the arrow keys, move the cursor to the field you wish to change. Confirm with ENTER. Use the '+' and '' keys to change the field content. If you wish to delete the switching point, use the arrow keys to move the cursor to the 'DELETE' field and confirm with ENTER. AHU1 <user addr.

> Really delete switchp 06:00? YES NO If you are sure that you wish to delete the switching point, use the arrow keys to move the cursor to 'YES' and confirm with ENTER. If you do not wish to delete the switching point, use the arrow keys to move the cursor to 'NO' and confirm with ENTER. In the latter case, you will escape to the previous screen without deleting the switching point. Creating a New Daily Time Program Using the arrow keys, move the cursor to 'YES'. Confirm with ENTER. AHU1 new daily prog. DP 1 MODIFY BACK The newly created daily time program is issued the name DP and the lowest number which is not assigned to a daily time program. Using the arrow keys, move the cursor to 'MODIFY' to go to the 'Modify daily time program' sequence. 'BACK' to return to the 'Time program' menu screen. Confirm with ENTER.

EN2B-0137GE51 R0109 19 TIME PROGRAM KEY EXCEL 50 USER GUIDE Deleting a Daily Time Program AHU1 Delete Workday Weekend 1 Shutdown Using the arrow keys, move the cursor to the daily time program to be deleted. Confirm with ENTER. AHU1 Really delete Shutdown ? YES NO Using the arrow keys, move the cursor to 'YES' to delete the daily time program or 'NO' to keep it. Confirm with ENTER. Copying a Daily Time Program A daily time program can be copied in order to create a new daily time program, which should be similar to an already existing daily time program. AHU1 Copy Workday Weekend Shutdown 1 Using the arrow keys, move the cursor to the daily time program to be copied. Confirm with ENTER. AHU1 Weekend copied to DP_2 BACK The copy of the daily time program is issued the name DP and the lowest number which is not assigned to a daily time program. Weekly Program System Time Daily Weekly Annual Using the arrow keys, move the cursor to the 'Weekly' field. Confirm with ENTER.

AHU1 Weekly MON Workday TUE Workday 1 WED Workday 20 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE TIME PROGRAM KEY A daily time program is assigned to each day of the week in the weekly time program. To assign another daily time program to a day of the week, use the arrow keys to move the cursor to this day. Confirm with ENTER. AHU1 Workday Weekend DP 1 MON 1 Using the arrow keys, move the cursor to the daily time program to be assigned to the day of the week displayed in the upper right corner. Confirm with ENTER.

AHU1 MON really assign Weekend ? YES NO Using the arrow keys, move the cursor to 'YES' to assign the daily time program to the weekday or 'NO' to escape from this screen without any changes. Confirm with ENTER. Annual Program System Time Daily Weekly Annual Using the arrow keys, move the cursor to the 'Annual' field. Confirm with ENTER. AHU1 Annual display from 23.

06.1997 NEXT The annual program will be displayed from the date shown in this screen. The default date is the current date. Using the arrow keys, move the cursor to the date field. Confirm with ENTER. Use the '+' or '' keys to change the date and move to the next digit using the right arrow key. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. AHU1 Workday From: 22.

*12.1997 To: 07.01.1998 CHANGE NEXT In this screen, the name of the daily time program which is assigned to the period is shown. If there is no daily time program assigned to the annual schedule, the following screen appears: EN2B-0137GE51 R0109 21 TIME PROGRAM KEY EXCEL 50 USER GUIDE AHU1 ******** FRI 16.05.1997 FRI 16.05.1997 CHANGE NEXT Regardless of which screen appears, use the arrow keys to move the cursor to 'NEXT' to display the next period a daily time program is assigned to. 'CHANGE' to change the settings for the shown period.*

Confirm with ENTER. AHU1 Workday From: 22.12.1997 To: 07.01.

1998 REMOVE ASSIGN If 'CHANGE' has been selected, this screen will be displayed. Using the arrow keys, move the cursor to the date fields you wish to change. Confirm with ENTER. Use the '+' and '' keys to change the start and end dates. Using the arrow keys, move the cursor to 'ASSIGN' to assign another daily time program to the period.

*'REMOVE' to remove the daily time program shown in the first line of the screen from the period. Confirm with ENTER. AHU1 SELECT: Workday Weekend 1 DP 4 If 'ASSIGN' has been selected, this screen will appear. Using the arrow keys, move the cursor to a daily time program to assign it to the previously entered period of time. Confirm with ENTER. AHU1 really remove entry? YES NO If 'REMOVE' has been selected, this screen will appear. Using the arrow keys, move the cursor to 'YES' to remove the daily time program from the period. Confirm with ENTER. 22 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE TIME PROGRAM KEY EN2B-0137GE51 R0109 23 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY 25 EN2B-0137GE51 R0109 DATA POINTS / PARAMETERS KEY Sequence of screens for analog input (AI), analog output (AO), and pseudo analog (PA) data points EXCEL 50 USER GUIDE * <user addr.> <user addr.*

> <user addr.> <user addr.> 1 <user addr.> <user defined text> <value> AUTO NEXT <user addr.

> Suppress Alarm YES BACK NEXT (AI, PA) Time to Open 0.0sec Close 0.0sec BACK NEXT Min Lim2 <value> Min Lim1 <value> BACK (AI, only) Min Lim2 Min Lim1 S.Offset BACK <value> <value> <value> NEXT Min Lim2 <value> Min Lim1 <value> Trend log: YES BACK NEXT NEXT (PA, only) (AO, only) <user addr.> Tech Addr: <value> Trend log: YES BACK NEXT <user addr.> Input: <NV index> <nvi name> BACK NEXT <user addr.
*> Output: <NV index> <nvo name> BACK NEXT Trend Hysteresis 1.0 Pct Trend Cycle: 0000 min BACK 26 0000125b EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY 0000126b Sequence of screens for digital input (DI), digital output (DO), pseudo digital (PD), and totalizer points (PI) * <user addr.> <user addr.> <user addr.> <user addr.*
> <user addr.> <user defined text> <value> AUTO NEXT <user addr.> Suppress Alarm YES BACK NEXT 1 (PI, only) (PD, only) <user addr.> Trend log: BACK (DI, DO) YES NEXT <user addr.> Tech Addr: <value> Trend log: YES BACK NEXT <user addr.
*> Input: <NV index> <nvi name> BACK NEXT <user addr.> Output: <NV index> <nvo name> BACK NEXT <user addr.> Normally Closed YES BACK <user addr.> Tech Addr: <value> Trend log: YES BACK EN2B-0137GE51 R0109 27 DATA POINTS / PARAMETERS KEY Sequence of screens for remote analog (RA) and remote digital (RD) points EXCEL 50 USER GUIDE 0000127b * <user addr.> <user addr.> <user addr.> <user addr.> 1 <user addr.> <user defined text> <value> AUTO NEXT <user addr.> Suppress Alarm YES BACK NEXT (RA and RD) (configurable applications, only) <user addr.*

*> RemoteController Number: 0 BACK (RA, only) (CARE applications, only) <user addr.> Broadcast Hyst.. <value> BACK Press the 'Data points / parameters' fast-access key to get access to information on physical, remote and pseudo user addresses, parameters, system data, and the DDC program cycle time. The password entry screen will be displayed. Please Enter Your Password **** NEXT Access to information on user addresses, parameters, system data, and the DDC program cycle time requires a level-2 or level-3 password. Refer to the section 'Password Procedure' for help with password entry. Enter the password. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'.*
Confirm with ENTER. Data Points Analog Input Analog Output Digital Input NEXT Using the arrow keys, move the cursor to 'Analog Input', 'Analog Output', or 'Digital Input' to go into the 'Data points' sequence. 'NEXT' to proceed to the next screen. Confirm with ENTER. 28 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY Digital Output Totalizer Hours Run BACK NEXT Using the arrow keys, move the cursor to 'Digital Output' or 'Totalizer' to go into the 'Data points' sequence.
'Hours run' to go to the 'Hours run' screen. 'NEXT' to proceed to the next screen. 'BACK' to return to the previous screen. Confirm with ENTER. M-Bus Data Pseudo Analog Pseudo Digital BACK NEXT Using the arrow keys, move the cursor to 'M-Bus Data', 'Pseudo Analog', or 'Pseudo Digital' to go into the 'Data Points' sequence.
M-Bus Data will show only special pseudo points related to the Meter Bus. These special points also appear under the Pseudo Analog and Pseudo Digital. 'NEXT' to proceed to the next screen. 'BACK' to return to the previous screen. Confirm with ENTER. Remote Analog Remote Digital Manual Operat. BACK NEXT Using the arrow keys, move the cursor to 'Remote Analog' or 'Remote Digital' to go into the 'Remote points' sequence. 'Manual Operat.' to go to the 'Manual operation' screen. 'NEXT' to proceed to the next screen.

Confirm with ENTER. The sequence proceeds to the Parameters sequence discussed separately in a later section. Data Points Sequence The 'Data Points' sequence will change depending upon the type of data point selected. Only the complete sequence for analog input points will be shown here as an example. Features unique to other data point types will be shown afterwards. Selecting one of the data point types will display the first screen of the 'Data Points' sequence. <user addr.> <user addr.> <user addr.> <user addr.
> 1 Using the arrow keys, move the cursor to the appropriate data point. Confirm with ENTER. EN2B-0137GE51 R0109 29 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE <user addr.> <user defined text> <value> AUTO NEXT In this screen, the operating mode field can be changed from 'AUTO' to 'MANUAL' (and vice versa) and the setpoint value/status can be changed. Using the arrow keys, move the cursor to the appropriate field.
Confirm with ENTER. Change the value/status using the '+' or '' keys. Confirm with ENTER. If the operating mode is changed, an alarm screen with the message 'Manual operation' or 'Auto operation' appears. Confirm the alarm with CANCEL.
Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. <user addr.> Suppress Alarm YES BACK NEXT The attribute "Suppress Alarm" of the user address can be changed from 'YES' to 'NO' and vice versa. Using the arrow keys, move the cursor to the appropriate field. Confirm with ENTER. Change the status using the '+' or '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER.

Min lim2><value> Min lim1><value> BACK NEXT This and the next screen will be shown only for analog input and pseudo analog data points. Change the value of the attributes "Min Alarm Limit" and "Max Alarm Limit" using the '+' and '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. Max lim1><value> Max lim2><value> S.Offset><value> BACK NEXT Change the value of the attributes "Min Alarm Limit", "Max Alarm Limit", and "Sensor Offset" using the '+' and '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER.
<user addr.> Tech Addr <value> Trend log: YES BACK NEXT This screen displays the technical address of the data point. The technical address is a number with six digits in pairs of two and stands for the following data: XX XX XX Physical point address Board number Controller number 30 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY For an explanation of Board Number, see section "Data Point Wiring Check".

To enable trend logging for this data point, use the arrow keys to move the cursor to the appropriate field. Confirm with ENTER. Change the value/status using the '+' or '-' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. Except in the case of Remote Analog points, the following screen appears: <user addr. > Input: <NV index> <nvi name> BACK NEXT This screen shows the mapping of data points to network variables transmitted on the LONWORKS bus. If no network variables have been mapped, the index and NV name fields will be blank. This screen appears also for outputs, with NV index for the output and nvo name displayed. In the case of Remote Analog points only, the following screen appears: Trend hysteresis 1.0 Pct Trend Cycle: 0000 min BACK To change the attributes "Trend Hysteresis" or "Trend Cycle", use the arrow keys to move the cursor to the appropriate field. Confirm with ENTER. Change the value/status using the '+' or '' keys. NOTE: If "Trend Cycle" is set to anything other than 0000, time-based trending is enabled. If "Trend Cycle" is set to 0000, then value-hysteresis trending is enabled using the percent value show for "Trend Hysteresis". Digital Points This screen is visible only for digital points and shows the relationship between the physical state of a digital point and its logical status.

<user addr.> Normally Closed YES BACK NEXT The attribute "Normally Open/Normally Closed" of the user address can be changed from 'YES' to 'NO' and vice versa. Using the arrow keys, move the cursor to the appropriate field. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. Remote Points This screen is visible only for remote points and shows the controller number of a remote point. <user addr.> RemoteController Number: 0 BACK NEXT Change the controller number using the '+' and '' keys. Confirm with ENTER. In the case of points which the controller receives from other controllers on the C-Bus, the EN2B-0137GE51 R0109 31 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE controller number of the source of the point must be entered. For points that the controller is the source of, the default value of 0 is required. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. Analog Outputs This screen is visible only for analog outputs and shows - for example - the time an actuator needs to open and close a valve. Time to Open Close BACK 0.0sec 0.0sec NEXT Change the values using the '+' and '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER. CARE Applications For applications created in CARE, the sequence for Remote Digital points ends with the second screen, showing user address, state, and mode. The sequence for Remote Analog points proceeds to the following one: <user addr.> Broadcast Hyst.: <value> BACK This screen allows you to change the attribute "Broadcast Hysteresis". This attribute is available for remote analog data points in CARE applications (not applicable to configurable applications). "Broadcast Hysteresis" prevents new values from being broadcast to other controllers unless the data point value changes (positively or negatively) at least by the amount specified in this screen. Using the arrow keys, move the cursor to the appropriate field. Confirm with ENTER. Change the value/status using the '+' or '' keys.

Confirm with ENTER. Hours Run Digital Output Totalizer Hours Run BACK NEXT Using the arrow keys, move the cursor to the 'Hours Run' field. Confirm with ENTER. <user addr.> <user addr.> <user addr.> <user addr.> 1 Using the arrow keys, move the cursor to the appropriate user address. Confirm with ENTER. <user addr. > <value> hours Switch <status> <value> 32 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY The screen displays the total running hours logged together with the number of times the device has been switched on. If you have accessed the 'Data points / parameters' procedure with the level-3 password, the values can be changed using the '+' and '' keys. Manual Operation Remote Analog Remote Digital Manual Operat. BACK NEXT Using the arrow keys, move the cursor to the 'Manual Operat.' field. Confirm with ENTER. <user addr.> <user addr.> <user addr.> <user addr. > 1 Using the arrow keys, move the cursor to the appropriate user address. Confirm with ENTER. <user addr.> <user defined text> <value> MANUAL BACK In this screen, the operating mode field can be changed from 'MANUAL' to 'AUTO' (and vice versa) and the setpoint value/status can be changed. Using the arrow keys, move the cursor to the appropriate field. Confirm with ENTER. Change the value/status using the '+' or '' keys. Confirm with ENTER. If the operating mode is changed, an alarm screen with the message 'Manual operation' or 'Auto operation' appears. Confirm the alarm with CANCEL.

EN2B-0137GE51 R0109 33 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE Parameters 0000122d Points in Trend Parameters System Info BACK NEXT List: 000 Number: 001 Val: 20.00 BACK Controller Name: <controller name> Softw.:V2.00.00 BACK NEXT Prj./Appl. Name: <project name> <applic. name> BACK NEXT Burn Date: <date> <time> BACK NEXT Applicat. <version> 1 HW-Interf. Cfg. DDC-Times Buswide Access BACK NEXT Separate overview for Hardware Interface Configuration screens. ><user addr.> <user addr.> <user addr.> <user addr. > <user addr.> <value> Trend log 1 DDC-Times Exec. Time:1.72 Cycl. Time:3. 00 BACK Trend Buffer Flash EPROM BACK Flash EPROM SAVE APPLIC. ERASE FLASH SHOW APPLIC. <user addr.> <user addr.> <user addr.> <user addr.> <val.> <val.>1 <val.> <val.

> ON BACK 5 5 Buswide Access LOGIN LOGOFF Remote Alarms ON OFF Remote Login <controller> <controller> <controller> <name> NEXT Erasing Flash Please wait! BACK <user addr.> <unit> <time> <value> 1 <time> <value> <time> <value> 3 1 1 Config. NEXT C1<code>C2<code> C3<code>C4<code> C5<code>C6<code> Fixed <app.> <app.> <app.> Applic. <date> 1 <date> <date> 4 <1. time program> MON 13.06. 10:27 TO: 20:30 20°C TODAY NEXT Config. 2 1 NEXT 1 C7<code>C8<code> Burning Flash Please wait! This screen appears only with configurable application controllers.

This screen appears only for certain applications requiring eight application codes. This screen belongs to the local controller again after logging off from the remote controller. This screen belongs to the chosen remote controller. This screen appears only with freely programmable controllers.
2 3 5 Tool Ident. Data Name: <tool name> Vers: <vers. no.> BACK NEXT Tool Ident. Data User Name: <user name> BACK NEXT User ID: <user ID number> 5 4 NEXT Op.
Seq. Rev. AMA: <rev. no.> ATX: <rev. no.> BACK 5 5 5 34 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE Hardware Interface Configuration screens HW-Interf. Cfg. >C-Bus Lon-Bus 1 B-Port 4 3 2 DATA POINTS / PARAMETERS KEY 1 This screen appears only with configurable application controllers. These screens appear only for CARE applications.

*4 B-Port Config. Baudrate:> 9600 BACK LON-Bus Config. Ctr. Neuron ID: 000239026601 >BACK C-Bus Config. Baudrate:> 38400 Ctr. No : 4 Bus ID: BACK 3 Additional options ("Meter Bus" and "Modem", respectively) viewable by scrolling downwards. Modem Config. Baudrate: > 9600 GSM PIN ******** Reset Modm NEXT M-Bus Config. Baudrate: <bdrate> Point Assgnmt. BACK HM1 - 1 HM2 - 1 WM1 - 1 Appl.*
Mem. Size: 128 KB Rem. Trend Buf.: 1400 Entr. BACK 1 2 <user addr.
> <user addr.> <user addr.> <user addr.> <no.> <no.
>1 <no.> <no.> <user addr.> M-Bus No.: <no.> 2 BACK Points in Trend Parameters System Info BACK NEXT Using the arrow keys, move the cursor to 'NEXT' to display the second screen of the 'Parameters' menu. Confirm with ENTER. HW-Interf. Cfg. DDC-Times Buswide Access BACK NEXT EN2B-0137GE51 R0109 35 0000141 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE Using the arrow keys, move the cursor to 'NEXT' to display the third screen of the 'Parameters' menu.

Confirm with ENTER. Trend Buffer Flash EPROM BACK Points in Trend Points in Trend Parameters System Info BACK NEXT Using the arrow keys, move the cursor to the 'Points in Trend' field. Confirm with ENTER. <user addr.> <user addr.> <user addr.> <user addr.> 1 Using the arrow keys, move the cursor to the appropriate data point. Confirm with ENTER. <user addr.
> <value> Trend Log ON BACK To enable/disable trend logging for this data point, use the arrow keys to move the cursor to the appropriate field. Confirm with ENTER. Change the value/status using the '+' or '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'BACK'.
Confirm with ENTER to return to the list under 'Points in Trend'. Parameter List Points in Trend Parameters System Info BACK NEXT To view or change control parameters of devices connected to the controller, use the arrow keys to move the cursor to the 'Parameters' field in the first screen of the parameters sequence. Confirm with ENTER. Changing parameters requires a level3 password. List 000 NO.
001 Val. 20.00 °C BACK To change the parameter value, use the arrow keys to move the cursor to the value field. Confirm with ENTER. 36 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY Use the '+' or '' keys to change the value. Confirm with ENTER. Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER to return to the parameter list screen. System Information Points in Trend Parameters System Info BACK NEXT Using the arrow keys, move the cursor to the 'System Info' field. Confirm with ENTER.

Controller Name: <controller name> Softw.:V 2.00.00 BACK NEXT Using the arrow keys, move the cursor to the controller name field. Confirm with ENTER. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER to proceed to the next screen (which depends upon the type of application module used). Prj./Appl. Name <project name> <application name> BACK NEXT This screen does not appear in configurable applications.
This screen displays the name of the current project and application. 'NEXT' is preselected to move to the burn date screen. Confirm with ENTER. Burn Date: <burn date> <burn time> BACK NEXT This screen does not appear in configurable applications. This screen displays the burn date and time of the current project and application.
'NEXT' is preselected to move to the application version screen. Confirm with ENTER. Applicat. <name> <version> BACK NEXT This screen appears in configurable applications only. This screen displays the name of the current application and its version number.
'NEXT' is preselected to move to the configuration codes screen. Confirm with ENTER. Config. C1<code> C3<code> C5<code> NEXT C2<code> C4<code> C6<code> This screen appears in configurable applications only. EN2B-0137GE51 R0109 37 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE In this screen, the codes of the configurable application can be viewed. NOTE: Not all applications have six configuration code numbers. Applications with eight configuration codes have two on a second screen as shown below. Second screen: CONFIG. C7<code> NEXT C8<code> This screen appears in configurable applications only. IMPORTANT After performing a RESET, all data in RAM and the configuration codes are lost.

To change the codes perform a RESET (press the down arrow and the minus key simultaneously). The codes can then be changed In the start-up sequence. 'NEXT' is preselected to move to the Tool Information screen. Confirm with ENTER. Tool Ident. @@'NEXT' is preselected to move to the User Name screen. Confirm with ENTER. Tool Ident. @@@@@@@@Confirm with ENTER. Op.
Seq. Rev. @@@@@@'BACK' is preselected to move to the previous screen. @@@@Cfg. @@Confirm with ENTER.
B-Port Config. @@Confirm with ENTER. NOTE: Changing the baud rates requires a level-2 password. Change the values using the '+' or '' keys. Confirm with ENTER.
@@@@Confirm with ENTER. C-Bus Config. @@it is then no longer editable). See also section "LONWORKS Bus" below. Using the arrow keys, move the cursor to the value field. Confirm with ENTER. NOTE: Changing the baud rates requires a level-2 password. @@@@Change the values using the '+' or '' keys. Confirm with ENTER. To change the controller number, repeat previous steps.

*@@@@Confirm with ENTER. LON-Bus Config. Contr. @@@@@@Confirm with ENTER. EN2B-0137GE51 R0109 39 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE Modem Config. Baudrate:<bdrate> GSM PIN:******** Reset Modm NEXT This screen appears only when modem communication is enabled. NOTE: GSM communication is not supported.*

Using the arrow keys, move the cursor to the value field. Confirm with ENTER. NOTE: Changing the baud rates requires a level-2 password. Change the values using the '+' or '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to 'Reset Modem' to reset the modem to its factory setting (insure that the modem is connected). Confirm with ENTER. IMPORTANT Resetting the modem will restore the factory defaults and erase any custom initialization.

Using the arrow keys, move the cursor to 'NEXT' and confirm with ENTER. Appl. Mem. Size 128 KB Rem. Trend Buf. 104 Entr. BACK This screen appears only when modem communication is enabled. This screen displays the size of the adjustable remote trend buffer. The number of entries (trend samples) that can be stored in the buffer for Remote Building Central A is determined by a calculation by the controller based upon the Application Memory Size entered in the start-up sequence. The values shown can be changed only by resetting the controller and entering a new value for Appl. Mem. Size in the start-up sequence. NOTE: Firmware V2.03.01 or later and CARE V2.

02.00 or later enables the controller to run RACL partly from the Flash EPROM. Thus, the application memory calculation is different compared to older versions. This has to be considered during start up once you enter the application memory size. 1. CARE V2.02.00 or later: The maximum application size is 128 Kbytes (128 Kbytes flash memory). Enter the application size calculated by CARE. 2. CARE versions before V2.02.00 without modem: The maximum application size calculated by the old CARE is 113 Kbytes because the complete application including RACL runs from the RAM. The controller will not run if the application is bigger. You need to use CARE at least V2. 02.00 if your applications require more than 113 Kbytes. Applications bigger than 113 Kbytes without modem will not run from the flash memory after firmware download of OS V2.03.01 if they were done with CARE versions before V2. 02.00. 3. CARE versions before V2.02.00 with modem: The maximum application size calculated by the old CARE is 100 Kbytes. The controller will not run if the application is bigger. For the calculation of the trend buffer you need to enter 28 Kbytes plus the application size calculated by the old CARE version, e.g., CARE before V2.

02.00 calculated 98 Kbytes, thus you will enter 126 Kbytes (98 Kbytes + 28 Kbytes) on the MMI of the controller. We strongly recommend using CARE V2.02.00 or later if you use modem communication. This will allow for applications with up to 128 Kbytes (128 Kbytes flash memory). Applications bigger than 100 Kbytes with modem will not run from the flash memory after firmware download of OS V2.03.01 if they were done with CARE versions before V2.02. 00. 40 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE 4. DATA POINTS / PARAMETERS KEY Configurable applications: Always enter 128 Kbyte for the application memory size. @@M-Bus Using the arrow keys, move the cursor to the 'M-Bus' field. Confirm with ENTER. M-Bus Config. Baudrate:<bdrate> Point Assgnmt. BACK Using the arrow keys, move the cursor to the value field. Confirm with ENTER. NOTE: Changing the baud rates requires a level-2 password. Change the values using the '+' or '' keys. Confirm with ENTER. Using the arrow keys, move the cursor to the 'Point Assgnmt.' field. Confirm with ENTER. For configurable applications the following screen will appear: HM1 - 1 HM2 - 1 WM1 - 1 This screen appears only with configurable applications. This screen displays the bus numbers for up to three heat meters and/or up to two water meters on the Meter Bus (up to max. 3 meters in total). A value of 0 or lower (1 default) means no device is connected. Using the arrow keys, move the cursor to the appropriate bus number field.

Confirm with ENTER. Use the '+' or '' keys to change the value. Confirm with ENTER. To return to the previous screen, use the arrow keys to move the cursor to CANCEL. Confirm with ENTER. In the case of CARE applications, the following screen appears following the 'M-Bus Config.' screen: <user address><no.> <user address><no.> 1 <user address><no.> <user address><no. > This screen appears only with nonconfigurable applications. This screen displays the user address and Meter Bus device number assigned to it. To change the Meter Bus device number, use the arrow keys to move the cursor to the appropriate user address and confirm with ENTER. The following screen appears: <user address> M-Bus Nr: <no.> BACK Using the arrow keys, move the cursor to the value field to set the device number of the Meter Bus. Confirm with ENTER. Use the '+' or '' keys to change the value. Confirm with ENTER. EN2B-0137GE51 R0109 41 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE DDC Program Cycle Times HW-Interf. Cfg. DDC-Times Buswide Access BACK NEXT Using the arrow keys, move the cursor to the 'DDC-Times' field. Confirm with ENTER. DDC-Times Exec.Time: 1.72 Cycl.Time: 3.00 BACK This screen displays the RACL cycle time and execution time in seconds. The cycle time can be changed to optimize the system performance. Changing the cycle time requires a level-3 password. Using the arrow keys, move the cursor to the 'Cycl.

time' field. Confirm with ENTER. Use the '+' or '' keys to change the value. Confirm with ENTER. Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER. Buswide Access HW-Interf. Cfg. DDC-Times Buswide Access BACK NEXT The 'Buswide Access' function uses the MMI of this controller to view or to make changes to other EXCEL 50 controllers without MMI which are connected to the same bus. Using the arrow keys, move the cursor to the 'Buswide Access' field. Confirm with ENTER. Buswide Access LOGIN LOGOFF Remote Alarms ON OFF Using the arrow keys, move the cursor to 'LOGIN' to log in to another controller on the same bus. 'LOGOFF' to log off from the remote controller where you are logged in at the moment. 'ON' to enable the logging of alarms coming from other controllers on the bus (these alarms can then be displayed after pressing the 'Alarms' fast-access key in the 'Buswide Alarms' menu). 'OFF' to disable the logging of alarms coming from other controllers on the bus. Confirm with ENTER. If 'LOGIN' has been selected, this screen will appear: Remote Login <controller> <controller> <controller> 1 Using the arrow keys, move the cursor to the controller you want to log into. Confirm with ENTER. 42 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE DATA POINTS / PARAMETERS KEY IMPORTANT: From now on, all visible screens are the screens of the remote controller. The first screen of the remote controller will be the start screen.

You can now access all screens of the remote controller. Use the 'Buswide Access' function via the 'Data Points / Parameters' fast-access key to return to the screens of your own controller. Use the LOGOFF function or select your own controller in the controller list of the LOGIN function. If you do not press a key for 10 min, you will also be logged off. You will return to the controller list screen of the LOGIN function on your own controller. Logging in to a controller that uses an XI581/582 operator interface results in only part of the information from that controller being displayed on the Excel 50 screen (due to its smaller screen size). If 'LOGOFF' has been selected, you will be logged off from the remote controller and return to the controller list screen of the LOGIN function on your own controller. If 'ON' or 'OFF' has been selected, alarms from remote controllers will be displayed or suppressed. The screen will remain the same and no changes are visible. Trend Buffer Trend Buffer Flash EPROM BACK Using the arrow keys, move the cursor to the 'Trend Buffer' field.

Confirm with ENTER. <user addr.> <user addr.> <user addr.> <user addr.> 1 Using the arrow keys, move the cursor to the appropriate data point. Confirm with ENTER. <user addr.> <unit> < time> <value> 1 < time> <value> < time> <value> In this screen, the trend buffer entries for the data point can be viewed using the normal methods for moving through a list box. Return to the list under 'Points in Trend' with CANCEL.
Flash EPROM Trend Buffer Flash EPROM BACK Using the arrow keys, move the cursor to the 'Flash EPROM' field. Confirm with ENTER.
EN2B-0137GE51 R0109 43 DATA POINTS / PARAMETERS KEY EXCEL 50 USER GUIDE Flash EPROM SAVE APPLIC. ERASE FLASH SHOW APPLIC. Using the arrow keys, move the cursor to 'SAVE APPLIC.
' to burn all data of the current application data into the Flash EPROM. 'ERASE FLASH' to erase all data from the Flash EPROM. 'SHOW APPLIC.' to display fixed applications with burn date. Confirm with ENTER.
If 'SAVE APPLIC.' has been selected, this screen will appear: Burning Flash please wait! If 'ERASE FLASH' has been selected, this screen will appear: Erasing Flash please wait! If 'SHOW APPLIC.' has been selected, this screen will appear: Fixed Applic. <application> <date> <application> <date> 1 <application> <date> Using the arrow keys, move the cursor to the appropriate application and view the burn date. 44 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE ALARMS KEY Press the 'Alarms' fast-access key to display alarm information on alarm history, points currently in an alarm condition, critical alarms, non-critical alarms, and buswide alarms. Alarm Buffer Point in Alarm Critical Alarm NEXT Confirm with ENTER to go to the second screen of the 'Alarms' procedure. NonCrit.Alarm Buswide Alarms BACK Using the arrow keys, move the cursor to the desired item from the first or second page of the alarm menu, e.g. 'Point in alarm'.

Confirm with ENTER. <alarm name> <alarm name> <alarm name> <alarm name> 1 The screen displays all the points currently in alarm in the list box. To access more information about a specific alarm, use the arrow keys to move the cursor to the appropriate alarm name. Confirm with ENTER. <date> <time> <alarm name> <value/status> <predefined text> Alarm information (comprising the date, time, alarm name, value/status and alarm reason) is displayed. Press CANCEL to return to the previous screen. 45 EN2B-0137GE51 R0109 ALARMS KEY EXCEL 50 USER GUIDE NOTE: The same operating method as described for 'Point in alarm' applies to the 'Alarm buffer', 'Critical alarm' and 'Noncritical alarm'. If the item 'Buswide alarms' has been chosen from the alarm menu, the following screen will appear: Buswide Alarms <contr.name> 01 X <contr.name> 02 X1 <contr.
name> 03 X This screen shows a list of all controllers connected to the bus. Using the arrow keys, move the cursor to the appropriate controller. Confirm with ENTER. <Alarm name> <Alarm name> <Alarm name> <Alarm name> 1 A list box with all alarms in the alarm buffer of the specified controller will be shown. Using the arrow keys, move to the appropriate alarm.
Confirm with ENTER. 46 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE ALARMS KEY EN2B-0137GE51 R0109 47 START-UP SEQUENCE EXCEL 50 USER GUIDE START-UP SEQUENCE After powering up or RESET Honeywell XL 50 V 2.04.00 >NEXT Date: 16.08.
2000 Time: 14:29 Ctr. No: 4 >NEXT Modem Part: inactive Appl. Mem. Size: 128 KB >NEXT >Contr. Setup Select Applic. Requ. Download DP Wiring Check HW-Interf. Cfg. >C-Bus Lon-Bus 1 B-Port 3 4 1 0000121d Choose Applic. >CONTR 16.

08.00 1 Please execute Download >Default Points Alarm History CARE applications (example, only) Embedded configurable applications ><user addr.> <user addr.> <user addr.> <user addr.> 1 Honeywell XL 50 V 2.04.00 >NEXT Append Busnumber to User Addr. ? YES >NEXT <1st time pgm.> Init MON 16.
08. 10:27 TO: 20:30 20 °C TODAY >NEXT Honeywell XL 50 V 2.04.00 AH01 V 1.00 >NEXT Append Busnumber to User Addr.
? YES >NEXT C1<code> C2<code> C3<code> C4<code> C5<code> C6<code> NEXT ><date> <user addr.> <val.> <alarm text> ><user addr.> <user addr.> <user addr.
> <user addr.> <time> 1 <val.> <val.>1 <val.> <val.> B-Port Config. Baudrate:> 9600 BACK LON-Bus Config. Ctr. Neuron ID: 000239026601 Bus ID: >BACK C-Bus Config. Baudrate:> 38400 Ctr.

*No : 4 Bus ID: BACK 3 This screen is skipped in the HE01 application. Instead, the bus number is appended automatically. This screen appears only for certain applications requiring eight configuration codes. 4 CONFIG 2 2 Additional options ("Meter Bus" and "Modem", respectively) viewable by scrolling downwards. Please be patient, while firmware restarts Modem Config. Baudrate: > 9600 GSM PIN ******** Reset Modm BACK C7<code> C8<code> M-Bus Config. Baudrate: <bdrate> BACK >Config. Interf. Enable Rem. B.*
Yes Configuration successful? No <1. time program> MON 13.06. 10:27 TO: 20:30 20°C TODAY NEXT After powering up the controller or after a RESET, the initial screen of the start-up sequence appears. A RESET can be achieved by pressing the 'DOWN' and '' keys simultaneously.
NOTE: The screens of the start-up sequence are part of the operating system and therefore always displayed in English.

Honeywell XL 50 V 2.04.00 NEXT 48 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE START-UP SEQUENCE This is the first screen of the start-up sequence. It shows the version of the company name, the controller name, and the firmware version.
The cursor is positioned at 'NEXT' by default. Confirm with ENTER. Date: 16.08.1998 Time: 14:29 Ctr. No: 4 NEXT Using the arrow keys, move the cursor to -- the 'Date' field to enter the current date. -- the 'Time' field to enter the current time. -- the 'Ctr. No' field to set the controller number. If 'Date' is selected: Set the date using the '+' or '' keys.

Use the arrow keys to move from field to field. Confirm with ENTER. Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER to return to the previous screen. NOTE: The date must be entered in the following format: DD. MM. YYYY; for example, 23. July 1997 must be entered as 23. 07. 1997. Press the CANCEL key to abort the operation or to cancel an incorrect entry before ENTER has been pressed. The value previously displayed will be restored. If 'Time' is selected: Set the time using the '+' or '' keys. Use the arrow keys to move from field to field. Confirm with ENTER.
Use the CANCEL key to return to the previous screen. NOTE: The time must be entered in the following format: HH:MM in 24-hour clock format; for example: 9:30 a.m. must be 09:30 and 9:30 p.m.
must be 21:30. Press the CANCEL key to abort the operation or to cancel an incorrect entry before ENTER has been pressed. The value previously displayed will be restored. If 'Ctr. No.' is selected: Set the controller number using the '+' or '' keys. Confirm with ENTER. IMPORTANT If no controller number is set or if the number shown is not reconfirmed, the controller will not go online on the C-Bus after start-up. Using the arrow keys, move the cursor to 'NEXT'. Confirm with ENTER.

Modem Part: <active/inactive> Appl. Mem. Size 128 KB NEXT This screen provides information about whether modem communication is enabled and about application memory size. Enabling modem communication and changing the value for application memory are done in a later screen. The cursor is positioned at 'NEXT' by default. Confirm with ENTER. Contr. Setup Select Applic. Requ. Download DP Wiring Check Using the arrow keys, move the cursor to -- 'Contr. Setup' to configure the controller-specific hardware interfaces. -- 'Select Applic.' to choose the application manually. -- 'Requ. Download' to download an application from either the PC-based XLOnline operator and service software or the XBS Central A.
-- 'DP Wiring Check' to set up the test mode with default user addresses. EN2B-0137GE51 R0109 49 START-UP SEQUENCE Confirm with ENTER. EXCEL 50 USER GUIDE Controller Setup If 'Contr. Setup.' has been selected, the following screen will appear: HW-Interf.
Cfg. B-Port C-Bus 1 LON-Bus The contents of this list box will depend upon the controller's exact hardware configuration. The listed interfaces to be configured will be from among the following: · · · · · B-Port B-Port C-Bus. LON-Bus Meter Bus Modem Using the arrow keys, move the cursor to 'B-Port' and confirm with ENTER. The following screen appears: B-Port Config. Baudrate: 9600 BACK Using the arrow keys, move the cursor to the value field. Use the '+' and '' keys to change the field. Confirm with ENTER. NOTE: Live CARE is now capable of autodetecting the controller baud rate setting, then of switching it temporarily to 38.4 Kbaud.

When Live CARE is disconnected, the controller will switch back to the previous baud rate setting automatically within 15 seconds. Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER. C-Bus Using the arrow keys, move the cursor to the 'C-Bus' field and confirm with ENTER. The following screen appears: C-Bus Config. Baudrate: 38400 Contr.No: <no.> BACK NOTE: If you set the bus ID to a non-zero value, the C-bus baudrate will be immediately disabled (i.e. it is then no longer editable).
See also section "LONWORKS Bus" below. Using the arrow keys, move to the appropriate value field. If 'Baudrate' is selected: Change the baud rate using the '+' and '' keys. Confirm with ENTER. If 'Contr.
No.' is selected: Change the controller number using the '+' or '' keys. Confirm with ENTER. IMPORTANT If no controller number is set or if the number shown is not reconfirmed, the controller will not go online on the C-Bus after start-up. Using the arrow keys, move the cursor to 'BACK'.
Confirm with ENTER. 50 EN2B-0137GE51 R0109 EXCEL 50 USER GUIDE LONWORKS Bus START-UP SEQUENCE Using the arrow keys, move the cursor to 'LON-Bus' and confirm with ENTER. The following screen appears: LON-Bus Config. Contr. Neuron ID <neuron ID number> Bus ID BACK This screen displays the unique identification number for the Neuron processor in the controller. Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER. IMPORTANT The bus ID is a non-unique number (i.e. different Excel 500 controllers can have the same bus ID in common) between 0 and 99 (inclusive) which the user can edit after a reset during the controller's start-up sequence or by changing the configuration property nciXL500BusSetup.

The factory default is "0". Meter Bus Using the arrow keys, move the cursor to the 'M-Bus' field and confirm with ENTER. The following screen appears: M-Bus Config. Baudrate: 9600 BACK Using the arrow keys, move the cursor to the value field. Use the '+' and '' keys to change the field. Confirm with ENTER. Using the arrow keys, move the cursor to 'BACK'. Confirm with ENTER. Modem Communication Using the arrow keys, move the cursor to 'Modem' and confirm with ENTER. If modem communication has not yet been enabled, the following screen appears: Config.
Interf. Enable Rem. B. This screen allows the user to enable modem communication. If you select 'Enable Rem.
B.', you will be asked to wait while the firmware is restarted. If modem communication is already enabled, the following screen will appear: Config. Interf. Config.
*Rem. B. Disable Rem. B. If 'Config. Interf.' Is selected, the following screen appears: Modem Config. Baudrate: 9600 GSM PIN ******** Reset Modm NEXT NOTE: GSM communication is not supported. Using the arrow keys, move the cursor to -- 'Baudrate' to set the baud rate for the modem/ISDN terminal adapter. EN2B-0137GE51 R0109 51 START-UP SEQUENCE EXCEL 50 USER GUIDE -- 'Reset Modem' to return modem to factory settings, erasing any custom modem initialization.*

See section "Remote Communications" of the Excel 50 Controller Installation Instructions, EN1B-101, for more information.