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You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL XL800. You'll find the answers to all your questions on the HONEYWELL XL800 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HONEYWELL XL800
User guide HONEYWELL XL800
Operating instructions HONEYWELL XL800
Instructions for use HONEYWELL XL800
Instruction manual HONEYWELL XL800

		Honeywell
		XL 800 Series
		FOR SMOKE CONTROL
HONEYWELL EXCEL 5000 OPEN SYSTEM		
INSTALLATION AND COMMISSIONING INSTRUCTIONS		
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.....35 Trademark Information Echelon, LON, LONMARK, LONTALK, LONWORKS, Neuron, are trademarks of Echelon Corporation registered in the United States and other countries. ENIB-0410GE51 R0908A 2 Excel 800 WARNING This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference. Any unauthorized modification of this equipment may result in the revocation of the owner's authority to continue its operation. Installation Mount controller subpanel in cabinet so all labeling is visible. Secure full-size subpanel in place with six no. 10 x 1/2-inch (13 mm) sheet metal screws (not supplied). Secure smaller subpanel with four no. 10 x 1/2-inch (13 mm) sheet metal screws (not supplied). NOTE: Subpanel must mount flat and should not bulge or recess anywhere. FULL-SIZE CABINET General The XL800 Series is designed to provide heating, ventilating and air-conditioning control. They can operate either standalone, or networked to Honeywell central workstations such as EBI.

These controllers can also be used for smoke control system monitoring and control, for monitor and control of fire (UL864), and general purpose signaling (UL2017). In UL 2017 applications, the product can be used as a type NM (Non-Monitored) system. It is also approved for UL916 (Energy Management Equipment.) The XL800 Series can be used for smoke control applications when used in conjunction with a UL listed fire alarm control panel (FACP) and UL listed fire fighters' smoke control station (FSCS). Before Installation 1.

Unpack door and remove the XL800 from carton. Check equipment and report any damage to a Honeywell representative. 2. Verify cabinet is installed correctly. 3.

Securely mount the XL800 to a rigid structural surface using at least four sets of 1/4 in. (6 mm) mounting hardware (supplied locally). NOTE: Anchoring materials must be suitable for the mounting surface (wood, concrete, steel). Mounting must comply with all local codes. SIX NO. 10 x 1/2-INCH (13 mm) SHEET METAL SCREWS Fig. 1. Mounting controller subpanel in cabinet (full-size subpanel cabinet shown) 4. Obtain correct number and type of sheet metal screws for subpanel. Installation of a full-size subpanel requires six no.

10 x 1/2-inch (13 mm) sheet metal screws (not supplied). Installation of a smaller subpanel requires four no. 10 x 1/2-inch (13 mm) sheet metal screws (not supplied). 5. Obtain 14505159-001 Tamper Switch per job requirements. Installation of Tamper Switch is optional. 3 ENIB-0410GE51 R0908A Wiring Excel 800 Wiring All wiring to the XL800 controller is unsupervised, except as noted. All circuits are power limited, except for AC power circuits, relay contacts and other circuits as noted. All field wiring terminals accept 24 AWG to 14 AWG (0.25 mm² to 2 mm²) conductors except as noted.

All wiring must conform to local codes, ordinances, and regulations. Refer to job drawings for details. Verify that the voltage difference between any conductor and earth ground does NOT exceed 150 Vac. 1. Connect input/output device wiring, C-Bus transmission wiring (minimum 18 gage [0.8012 sq mm]), LON Bus transmission wiring, and 14507063 Power Cable to Controller per job drawings. Fig. 2 and Fig. 3 show typical controller wiring.

Four Power Module models are available (see Table 2).

2. Connect line voltage to Terminals H and N of the 14507287 Power Module. Connect a good earth ground to Terminal G of the Power Module. Fig. 5 through Fig. 7 show typical power wiring. 3. For Power Modules -001 through -007, leave power to Power Supply and Controller OFF. Connect 14507063 Power Cable from Controller to Power Module. WARNING Risk of electric shock or equipment damage! Subpanel and Controller power must remain OFF until Controller is checked.

4.



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Install optional Tamper Switch on cabinet per instructions in the cabinet installation instructions. Wire Tamper Switch per job drawings. 5. Mount cabinet door. CAUTION Risk of electric equipment damage! Excessive static can burn out equipment. Observe proper anti-static material handling practices when installing or servicing PC parts and related components. Observe proper equipment and body grounding practices. Discharge static electricity from your body before handling parts. Table 1.

Connector terminal specifications connector terminal analog input digital input analog output digital output totalizer output signal ground J1 RS-485 (C-BUS) (3 pin signal type AI DI AO DO TI GND input / output input input output output input -(1 (2 voltage type SIGNAL SIGNAL SIGNAL AC/DC SIGNAL -- max. voltage ± 12 V ± 10 V ± 10 V ± 12 V ± 5 V ± 5 V -- max. current ± 20 mA ± 20 mA ± 20 mA ± 12 mA -1 mA / 180 mA 1 mA / 180 mA -- max. frequency 9600 baud -9600 baud -100 Hz -9600 baud 9600 baud -- max. line impedance 8K ohms 15K ohms 8K ohms 10K ohms -100 ohms 100 ohms -- ± 24 VAC/DC ± 50 mA 1 2 3S +A -A Shield A (3 input / output SIGNAL input / output SIGNAL --supervised (1 special application; (2 regulated; Table 2. Power module models model transformer max. input Vac current draw 0.5 A 1.7 A 1.7 A 120 A Hz 60 60 60 60 (48 VA) controller VAC output 24 24 24 24 24 Vac, 100 VA, 24 Vac, 40 VA 24 Vac, 100 VA, 24 Vdc, 600 mA -accessory output coT 24VAC ACCESSORY POWER -002 AND -003 MODELS (4 AMP MAX.) MAIN LINE VOLTAGE 120 VAC, 60 HZ TERMINAL "G" MUST BE CONNECTED TO A GOOD EARTH GROUND. * H N G CONTROLLER POWER ON OFF ~ CONTROLLER SUPPLY MUST BE WIRED TO EARTH GROUND 24VAC 48VA ~ G 14507063-002 POWER CABLE (incl. with 14507287 power modules 14507287-001 through -003, only.) CONNECTOR TO XL800 CONTROLLER J5 BRN GRN BLK 24 VAC ACCESSORY POWER -002 MODEL, ONLY. 2 AMP MAX. FOR 14507287-003 (24VDC) BRN GRY BRN GRY FOR 14507287-002 (24VAC) RED BRN GRY GRY UNSWITCHED UNFILTERED 120 VAC "G" MUST BE WIRED TO EARTH GROUND CONNECTORS ARE KEYED TO PREVENT MISALIGNMENT. CONVENIENCE OUTLET (UNFILTERED, UNSWITCHED) -002 AND -003 = 10 AMP * 14507287-001 POWER TERMINALS LABELED H-N-G. POWER MODULE 14507287-001 THROUGH -003 14507287-002 AND -003 14507287-002 AND -003 FUSE NO. FUSE RATING HONEYWELL PART NO. BUSSMAN PART NO.

LITTLEFUSE PART NO. F1 F2 F3 2 AMPS 5 AMPS 2 AMPS 14000485-007 14507374-001 14000485-007 AGC-2 GMA 5AMP AGC-2 312002 235005 312002 Fig. 6. Typical 14507287-002, -003 Power Module wiring EN1B-0410GE51 R0908A 8 Excel 800 Description of the XCL8010AU Controller Module CONTROLLER TRANSFORMER CONTROLLER SUPPLY 24 VAC 48 VA G 70 ~ 71 72 GRN BRN BLK 3 4 1 H N G BLK WHT GRN 24 V 50 VA 14507351-001 429P156A EIA 1052 XXXX COM 120 V MAIN LINE (120 VAC, 60 Hz) TERMINAL "G" MUST BE CONNECTED TO A GOOD EARTH GROUND. 1 2 1 1 MECHANICALLY SECURED TO SUBPANEL WITH MOUNTING SCREW Fig. 7. Typical 14507287-007 Power Module wiring I/O Module Overview Table 5. Overview of I/O modules Panel Bus module XF821AU XF822AU XFR822AU XF823AU XF824AU XFR824AU XFR825AU 1) 2) LONWORKS Bus module XFL821AU XFL822AU XFLR822AU XFL823AU XFL824AU XFLR824AU description Analog Input Module Analog Output Module Analog Output Module Binary Input Module Relay Output Module Relay Output Module Floating Output Module inputs outputs 8 12 8 8 6 2) manual controls LEDs 1) 8 status LEDs 8 manual overrides 8 status LEDs 12 status LEDs 6 status LEDs 6 2) 3 6 manual overrides 6 status LEDs 3 manual overrides 3 pairs of status LEDs In addition to the power LED and service LED Changeover outputs 9 EN1B-0410GE51 R0908A Description of the XCL8010AU Controller Module Excel 800 Corresponding Terminal Sockets Table 6. I/O modules and corresponding terminal sockets I/O module XF821AU, XFL821AU XF822AU, XFL822AU, XFLR822AU, XFR822AU XF823AU, XFL823AU XF824AU, XFL824AU, XFLR824AU, XFR824AU XFR825AU XS821-22 socket scope of delivery 1 terminal socket, 1 bridge connector 1 swivel label holder Technical Data System Data Table 7. System data Operating voltage Power consumption 24 VAC/DC, 60 Hz Max.

3.57 A (1 XCL8010AU Controller + 16 I/O modules) XS823 1 terminal socket, 1 bridge connector 1 swivel label holder 1 terminal socket, 1 bridge connector 1 swivel label holder 1 long cross connector Operational Environment Table 8. Operational environment ambient operating temperature ambient operating humidity ambient storage temperature ambient storage humidity 0 49 °C (32 122 °F) 5 93 % rel. humidity (non-condensing) 20 +70 °C (4 +158 °F) 5 95 % rel. humidity (non-condensing) XS824-25 Interfaces and Bus Connections The Excel 800 System can be connected to the following devices and systems: Panel Bus · For communication with up to 16 Panel Bus I/O modules · Polarity-insensitive LonWorks Bus · For communication with other LONWORKS Bus devices within the building · FTT10, link power compatible · Polarity-insensitive C-Bus · For communication with other controllers HMI · For connecting an operator interface, e.

g., XI582 or a laptop, e.g., for CARE Modem · NO CONNECTION Smoke Control Configuration SMOKE CONTROL CONFIGURATION XL800 11 12 9 AO SUPPLY FAN 4 5 3 UL-LISTED FIRE ALARM CONTROL UNIT AIRFLOW SENSOR AO EXHAUST FAN 8 FIREFIGHTERS' SMOKE CONTROL PANEL (FSCS) 14505068 AUDIBLE ANNUNCIATOR 2 AO DAMPER VERIFICATION 1 STATUS CONTROL 10 6 7 Fig. 8.

Typical smoke control configuration NOTES: 1 Locate and configure per NFPA 92A, Section 3-4.3.4. UL-listed annunciator / FSCS panel switches have a minimum rating of 24 V, 1/10 Amp, and lamps / LEDs have a rating of 24 V, limited to 50 mA. Locate so as to minimize control wiring and piping. Avoid running wires or piping through areas that have a high fire risk. Locate per UL 555S. 2 3 EN1B-0410GE51 R0908A 10 Excel 800 Description of the XCL8010AU Controller Module 4 5 6 7 8 Locate separate from and below all building exhaust fans and upstream of any prevailing winds. Exhaust to outside of building. Locate airflow differential switch.

Locate UL-listed damper pressure / position indicator per damper installation instructions. Smoke control must be initiated by a listed fire alarm control unit or in zone automatic alarm devices and not devices located outside of the smoke control zone. Interconnecting wiring must be within 20 ft. (6 meters) and in conduit. Refer to NFPA 92A. Verify that the AC voltage source connected to the inside of the main line voltage terminal block is from a UL-1481 listed uninterruptible power supply.



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The main line voltage terminal block maximum current draw is 0.5 A. For 220/240 VAC (60 Hz) applications, verify that no potential between any conductor and the earth ground exceeds 150 VAC. All external LONWORKS bus field wiring must be limited to 4000 ft.

(1200 meters) and be terminated to 14506944-001 transient protector (35 V, 290 mA max.) except C-Bus field wiring communicating at 1 MHz, which uses 14502412-014 transient protector (19 V, 500 mA). Panel Bus wiring must be in the same enclosure or less than 20 ft. to adjacent enclosure. No protection is required.

CAUTION Risk of electric equipment damage! Failure to use listed/approved replacement parts can damage product, degrade operation and result in loss of safety function. This product must be installed and operated within its environmental, mechanical, and electrical specifications as contained in this document.

When servicing, use only listed/approved replacement parts ordered directly from the manufacturer. 9 10 Typical Power Limited Circuit for XL800 POWER LIMITED POWER LIMITED 2 NON-POWER LIMITED CPU ANALOG INPUT MODULE ANALOG OUTPUT MODULE DIGITAL INPUT MODULE DIGITAL OUTPUT MODULE POWER LIMITED 24VAC CONTROL 24VAC ACCESSORY 24VAC NON-POWER LIMITED 11 2 1 NON-POWER LIMITED 3 2 1 NON-POWER LIMITED 12 Fig. 9.

Typical power-limited circuit for XL800 1 Data File Set-Up Generate the engineering data file for the XL800 Series Controllers. This data file has a mix of hardware points for the necessary inputs and outputs to control fans, dampers, and other equipment. In addition to the inputs and outputs, a custom control program is written to control the outputs per the sequence. The XL800 controllers can reset the program once the data from the operator interface indicates a normal condition for the dedicated smoke control equipment. Wire conditions must be programmed to provide annunciation of trouble conditions. Also required for a dedicated application for the XL800, is a weekly time program to test control points, fans, and dampers by exercising the equipment and verifying feedback automatically during low building activity periods. 14507287-001 through -003 power module accessory 24 VAC output (rated 2A) must be wired in accordance with NFPA 70, Article 725 when routed within the cabinet or adjacent cabinets and also for external field wiring. 14507287-001, -002, -003, and -007 control power module 24 VAC output is inherently power-limited. Thus, all sourced power from the XL800 controller is power-limited. All field wiring from these controllers meet NFPA 70, Article 725 power limited Class II requirements.

If a separate auxiliary power-limited 24 VAC power source is required, use a control power module (14507287-001 or -007 control supply). Devices must be installed in areas as shown. All cable must be routed as shown. All internal power-limited wiring must be separated by ¼ inch (6 mm) or barrier from non-power-limited wire. Excess wiring must be cut, trimmed, and dressed properly to ensure that proper clearances are maintained. 2 3 4 Panel Reset When in Smoke Control Mode, panel reset is accomplished by resetting the initiating panel contact circuit or by the separate initiating/reset switch on the FSCS panel. Connecting Single Bus Controller Systems This section describes how to connect a controller system which uses Panel Bus I/O modules, only or LONWORKS Bus I/O modules, only. 11 EN1B-0410GE51 R0908A Description of the XCL8010AU Controller Module Excel 800 XCL8010AU, I/O Modules on Single Rail Connect XCL8010AU Controller Module and I/O modules using the bridge connectors. This provides power supply and communication connection. No further wiring is necessary.

ROOM 1 71 72 LonWorks 73 I/O MODULE 74 XCL8010AU 12 LonWorks 76 I/O MODULE 77 75 78 Multiple Rails in Single Cabinet The multiple rails of a controller system are connected in series. Connect the rail ends as follows: Power supply via power supply terminals 73, 74 or 77, 78 Communication via communication terminals 71, 72 or 75, 76 71 72 73 I/O MODULE 74 71 72 73 I/O MODULE 74 71 72 73 I/O MODULE 74 71 72 73 I/O MODULE 74 75 ROOM 2 73 I/O MODULE 74 LonWorks LonWorks I/O MODULE LonWorks 76 I/O MODULE 77 75 78 I/O MODULE I/O MODULE 76 77 78 75 Fig. 11. Wiring the LONWORKS Bus I/O modules in separate rooms XCL8010AU 12 I/O MODULE 76 77 78 Maximum Cable Length Max. cable length: 1200 meters (4000 ft), supervised.

How to Connect Panel Bus and LONWORKS Bus Mixed Controller Systems Connecting I/O Modules For connecting the I/O modules with each other, proceed as described for single-bus controller systems. Connecting I/O Modules to the XCL8010AU Fig. 10. @@@@12. @@13.

@@@@Table 9. @@@I.e. @@@@ Configuration Fig. 14. @@@@This layout allows for max. @@@@ @@@@15. @@@@ @@@@16 Panel LonWorks Panel BUS BUS I/O BUS I/O I/O max. 10 max. 10 Fig.

18. @@16. Max. number of Panel Bus I/O modules LonWorks LonWorks BUS I/O BUS I/O XCL8010AU max. 20 LonWorks LonWorks LonWorks BUS BUS I/O BUS I/O I/O Connecting Sockets Controller and terminal sockets on the same DIN rail can be connected mechanically and electrically with bridge connectors. Controller and terminal sockets on different DIN rails must be connected using cables. max. 10 max. 10 NOTE: MAX. OF 16 DIGITAL INPUT MODULES MAY BE USED.

Fig. 17. Max. number of LONWORKS Bus I/O modules with power supply via XCL8010AU Angle the terminal socket at the upper edge of the DIN rail NOTICE Risk of malfunction! Wire Panel Bus I/O modules and LONWORKS Bus until it snaps in. Swing the terminal socket down and apply gentle force until it snaps into position with an audible "click".

Position XCL8010AU Controller Module and terminal I/O modules separately. When using both Panel Bus and LONWORKS Bus sockets flush with one another along the rail. If desired, mount stoppers at the ends of the rail to prevent sliding. I/O modules in an Excel 800 System, LONWORKS Bus I/O modules must be connected to the XCL8010AU Controller Module via LON terminals 11 14. Position the bridge connector on terminals 71 74 of the right hand terminal socket or XCL8010AU Controller Module and on terminals 75 78 of the left hand terminal socket or XCL8010AU Controller Module. Then press the bridge connector down. 15 EN1B-0410GE51 R0908A Mounting/Dismounting Modules Excel 800 Fig. 21. Releasing latch Fig. 19. Connecting terminal sockets with bridge connector NOTE: Bridge connectors transmit both communication signals and power supply between modules. Removing bridge connectors will interrupt the transmission of both communication signals and power supply between the modules. Mounting/Dismounting Electronic Modules Mounting Electronic Modules NOTE: Electronic modules can be removed from the socket or inserted into the sockets without switching off the power supply.



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The behavior of connected field devices must be taken into consideration. Dismounting Sockets Disconnecting Sockets Release all bridge connectors before removing the XCL8010AU Controller Module and/or the terminal sockets from the DIN rail.

Press down at the same time both the gray side wings next Make sure that terminal socket und I/O module match. Make sure that the red locking mechanism is in the open, i.e., left, position. Gently push the electronic module onto the terminal socket until snug, to the red button and then pull the bridge connector out of the module. Fig. 22. Inserting the electronic module Fig. 20.

Releasing bridge connectors Lock the red locking mechanism by sliding it to the right. Dismounting Controller/Terminal Sockets Insert a screwdriver into the latch on the underside of the module and lever the red latch 23 mm downwards. The module can then be swung away from the rail. EN1B-0410GE51 R0908A 16 Excel 800 Mounting/Dismounting Modules Setting the C-Bus Termination Switch Set the C-Bus termination switch S1 appropriately. Fig.

23. Locking the electronic module Fig. 25. C-Bus termination switch S1 NOTE: The red locking mechanism will not close if the electronic module is not properly mounted. Dismounting Electronic Modules NOTE: Electronic modules can be removed from the socket or inserted into the sockets without switching off the power supply.

The behavior of connected field devices must be taken into consideration. Table 11. XCL8010AU C-Bus termination switch settings switch setting S1 9.6k all 76k mid 76k end baud rate Up to 9600 baud (default setting) Up to 76800 baud without bus termination Up to 76800 baud with bus termination Open the red locking mechanism by sliding it to the left and then gently pull the electronic module out of the terminal socket. Shielding In principle, data transmitting cables should be shielded in case of RFI. On the controller side, connect the shield to terminals 7 and 10. On the side of the device, connect the shield to the respective terminals. Do not connect it to the cabinet ground or any other ground points. Connecting HMIs or Laptops Fig. 24.

Dismounting the electronic module Laptops or HMIs, e.g., XI582, can either be connected via the HMI interface of the XCL8010AU Controller Module or via the LONWORKS interface. Connecting via C-Bus Via C-Bus, an XCL8010AU Controller Module can be connected to other controller systems to form a network. Connecting the XI582 Operator Interface Connect the XI582AH Operator Interface to the HMI interface or LONWORKS interface of the XCL8010AU Controller Module by means of the XW882 cable or the XW582 cable connected with an XW586 cable. Connecting to the Controller Connect the C-Bus to the XCL8010AU Controller Module as follows: Input to C-Bus terminals 8 and 9 Output to C-Bus terminals 5 and 6 Do not connect the C-Bus to the cabinet earth or any other earth ground points 17 EN1B-0410GE51 R0908A Mounting/Dismounting Modules Excel 800 Connecting Laptops (XL-Online/CARE) Connect a laptop (on which e.g., XL-Online or CARE has Features LONWORKS Interface and Terminals The XCL8010AU Controller Module features · An RJ45 socket serving as an interface to connect laptops or HMIs to the LONWORKS Bus · LONWORKS terminals 11, 12, 13, and 14 to connect LONWORKS Bus I/O modules or other LONWORKS devices to the XCL8010AU Controller or other LONWORKS controllers. been installed) to the HMI interface or LONWORKS interface of the XCL8010AU Controller Module by means of the XW885 cable or the XW585 cable connected with an XW586 Cable. XCL8010AU Terminals 71 COM A 72 73 74 COM B 24 V~ 24 V~0 COM A COM B 24 V~ 24 V~0 75 76 77 78 87 65 4 3 21 11 LON 1 12 13 14 1 8 C+ 9 C10 SHIELD LON 2 LON 1 LON 2 5 C+ 6 C7 SHIELD 2 3 *Watch Dog Relay * 24 V~ 24 V~0 24 V~0 NC 4 Fig.

27. LONWORKS interface and LONWORKS terminals Fig. 26. Terminal assignment and internal connections of the XCL8010AU Controller Module LONWORKS Interface Signals on RJ45 Socket Table 13. Signals of LONWORKS interface Table 12.

Description of XCL8010AU terminals terminal 71, 75 72, 76 73, 77 74, 78 1 2 3 4 5, 8 6, 9 7, 10 11, 12 13, 14 signal COM a COM b 24 V~ comment 2-wire communication bus (LON/Panel Bus) 2-wire communication bus (LON/Panel Bus) Power supply for I/O modules 1 2 38 pin signal type Connection to LONWORKS Bus Connection to LONWORKS Bus Not used LONWORKS Service LED and Button The XCL8010AU Controller Module is equipped with a LONWORKS service button and corresponding LONWORKS Service LED (status: yellow/OFF). 24 V~0 Power supply for I/O modules 24 V~ Power supply from transformer 24 V~0 Power supply from transformer 24 V~0 Alarm/watchdog output NC C+ CShield LON LON Alarm/watchdog output C-Bus C-Bus C-Bus shield LONWORKS IN LONWORKS OUT LON 12 Fig. 28. LONWORKS service button (1) and service LED (2) See also section "Troubleshooting" on page 31. EN1B-0410GE51 R0908A 18 Excel 800 Mounting/Dismounting Modules C-Bus Tx LED and Rx LED The XCL8010AU Controller Module is equipped with a Tx LED (status: yellow/OFF) and an Rx LED (status: yellow/OFF).

HMI Interface The XCL8010AU Controller Module is equipped with an HMI Interface for the connection of HMIs, e.g., XI582 Operator Interface or a laptop (with XL-Online/CARE). C-Bus 1 2 Fig. 31. HMI interface, Tx LED (1) and Rx LED (2) Fig. 29. C-Bus Tx LED (1) and Rx LED (2) C-Bus LEDs Table 14. Controller C-Bus LEDs Tx (1) flickering Rx (2) flickering The controller is sending data onto the C-Bus The controller is receiving data from the C-Bus HMI interface LEDs on RJ45 socket Table 15. HMI interface LEDs Tx (1) flickering Rx (2) flickering The controller is transmitting data to the HMI The controller is receiving data from the HMI Reset Button The XCL8010AU Controller Module is equipped with a reset button.

HMI interface Signals on RJ45 socket Table 16. Signals of the HMI interface pin 1 Receive Transmit Signal ground 5V signal type RESET 2 3 4 5 1 Fig. 30. Reset button (1) 6 7 8 Pushing the reset button (1), e.g. using a paperclip, will cause the XCL8010AU Controller Module to reset. NOTE: In the event of a reset, all non-volatile memory contents are permanently deleted, though the clock will not be set to zero. In order to avoid problems, we therefore recommend that you always save your application changes (e.g., time program changes) to FLASH memory.

NOTICE Equipment damage! If earth grounding is required, make sure that only terminal 2 is connected to earth ground. Terminal 1 must not be connected to earth ground. See also Appendix 1. 19 EN1B-0410GE51 R0908A Mounting/Dismounting Modules Excel 800 Alarm and Power LEDs The XCL8010AU Controller Module is equipped with an alarm LED and a power LED.



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Watchdog Status Table 19.

Watchdog status (terminal 4) status Failure (= alarm) Normal operation signal on terminal 4 24 V 0V Modem Interface NO CONNECTION. I/O Bus Switch S2 The XCL8010AU Controller Module features a 2-position I/O Bus switch S2. Fig. 32. Alarm LED (1) and power LED (2) I/O Bus switch S2 must be set in accordance with the kind of I/O modules connected to communication terminals 71, 72 and 75, 76 of the XCL8010AU Controller Module.

Terminals 71, 72 and 75, 76 must be all connected either to Panel Bus I/O modules or to LONWORKS Bus I/O modules. The default setting is Panel. Alarm LED (1, red) Table 17. Controller alarm LED Off On Normal operation Watchdog alarm output is powered · The controller has encountered a hardware problem · The application has a fault · The controller has been powered up without an application or the operator has manually stopped the application. In this case, the LED will light up 13 minutes after power-up without application Flashing The watchdog alarm output has not yet been powered, although the controller has encountered a problem. The controller performs a warm start. If problem persists, the LED will become lit constantly, see above. See section "Troubleshooting" on page 31. Power LED (2, green) Table 18. Controller power LED On Flashing Normal operation One or more of the internal voltage supplies are outside of the permissible ranges.

The controller stops operation. Check wiring or see section Fig. 33. I/O Bus switch S2 Table 20. I/O Bus switch settings communication LONWORKS Bus only Panel Bus and LONWORKS Bus LONWORKS BUS modules connected to terminals 11 14 of the XCL8010AU Controller Module Panel Bus connected to terminals 71, 72 or Panel 75, 76 of the XCL8010AU Controller Module S2 setting LON Panel "Troubleshooting" on page 31. Goes out briefly · The operator has activated the reset button · The controller is performing a warm start EN1B-0410GE51 R0908A 20 Excel 800 Description of the I/O Modules C-Bus Termination Switch S1 The XCL8010AU Controller Module features a 3-position CBus termination switch S1. This switch must be set in accordance with the given C-Bus configuration. Description of the I/O Modules Common Features Switches Located on the Terminal Socket Table 23. Terminal socket switches feature function Service button · LED test, see section "Troubleshooting" S1 on page 31 · LONWORKS service button functionality for LONWORKS Bus I/O modules Hex switch S2 · Module addressing for Panel Bus I/O modules LEDs Located on the I/O Module Table 24. LEDs on I/O module Table 21.

XCL8010AU C-Bus termination switch S1 settings switch setting S1 9.6k all 76k mid 76k end baud rate Up to 9600 baud (default setting) Up to 76800 baud without bus termination Up to 76800 baud with bus termination controller at the end of the C-Bus feature Service LED (yellow) Power LED (green) function · Service information, see section "Troubleshooting" on page 31 · Information on power supply, see section "Troubleshooting" on page 31 Fig. 34. C-Bus termination switch For the location of these elements, see figures of the respective modules. Memory Table 22.

XCL8010AU memory memory SRAM size 512 KB usage For controller application, modem trend and firmware RACL application: 128 KB Total application: 192 KB Flash EPROM NOTE: 2 MB 128 KB Firmware (1 MB) and application (1 MB) storage For bootstrap loader The XCL8010AU Controller Module does not contain a battery. RAM (data and realtime clocktime) is buffered for 3 days by a super capacitor. 21 EN1B-0410GE51 R0908A Description of the I/O Modules Excel 800 Analog Input Modules Types of Analog Input Modules Table 25. Excel 800 Analog Input Modules type XF821 XFL821 XS821-822 description Panel Bus Analog Input Module LONWORKS Bus Analog Input Module terminal socket housing light-gray dark-gray light-gray Terminals 71 COM A 72 73 74 COM B 24 V~ 24 V~0 COM A COM B 24 V~ 24 V~0 75 76 77 78 VAUX VAUX AII AI2 AI3 AI4 AI5 AI6 AI7 AI8 21 22 1 2 3 4 5 6 7 8 GND GND GND GND GND GND GND GND GND 9 10 11 12 13 14 15 16 17 18 25 26 Features · 8 analog inputs · Sensor-break and short-circuit detection, see section "Troubleshooting" on page 31. Fig.

36. Terminal assignment and internal connections of Analog Input Modules Table 26. Description of Analog Input Module terminals terminal 71, 75 72, 76 73, 77 74, 78 18 9 18 signal COM a COM b 24 V~ 24 V~0 AII AI8 GND 10 VDC / 5 mA comment 2-wire communication bus (LON/Panel Bus) 2-wire communication bus (LON/Panel Bus) Power supply Power supply Analog inputs 1 8 Ground. All grounds are connected internally to each other Auxiliary voltage signal (used e.g. for supplying setpoint potentiometers). Connections to these terminals must be made in the same room. Shield connection (functional earth), internally connected to the DIN rail 21, 22 Fig. 35. XF821AU Analog Input Module with terminal socket Legend 1 2 3 4 Service button S1 Hex switch S2 Service LED Power LED 25, 26 NOTE: Shield connection to be used for shielded I/O cables only.

It is not allowed to connect a LONWORKS shield. Functionality of service LED and power LED: see Table 42 and following. EN1B-0410GE51 R0908A 22 Excel 800 Description of the I/O Modules XFL821AU Connection Examples 400 OHM 1 1 18 2 25 SHIELD 2 1 12 2 25 SHIELD 0(4) to 20 mA 0(4) to 20 mA (VIA EXTERNAL 500 OHM RESISTOR). 0 to 10 V 0 TO 10 VDC 5 10 14 11 22 12 25 SHIELD 3 1 13 2 25 SHIELD VMP Pt1000 NTC20kW Fig. 37.

XFL821AU Analog Input Module 23 EN1B-0410GE51 R0908A Description of the I/O Modules Excel 800 Analog Output Modules Types of Analog Output Modules Table 27. Excel 800 Analog Output Modules type XF822 XFR822 XFL822 XFLR822 XS821-22 description Panel Bus Analog Output Module Panel Bus Analog Output Module with manual overrides LONWORKS Bus Analog Output Module LONWORKS Bus Analog Output Module with manual overrides terminal socket housing light-gray light-gray dark-gray dark-gray light-gray Terminals Fig. 39. Terminal assignment and internal connections of the Analog Output Modules Table 28. Description of the Analog Output Module terminals terminal 71, 75 72, 76 73, 77 74, 78 18 9 18 21, 22 25, 26 signal COM a COM b 24 V~ 24 V~0 GND N.

C. comment 2-wire communication bus (LON/Panel Bus) 2-wire communication bus (LON/Panel Bus) Power supply Power supply Ground. All grounds are connected internally to each other Do not use! Shield connection (functional earth), internally connected to the DIN rail Shield connection to be used for shielded I/O cables only. It is not allowed to connect a LONWORKS shield. Features · 8 analog outputs; can also be configured per output as binary outputs (0 10 V, 2 10 V, ON/OFF, or floating) · Corresponding output status LEDs (red) · XFR822AU/XFLR822AU: 8 manual overrides, see figure below AO1 AO8 Analog outputs 1 8 NOTE: Technical Data Output status LEDs behavior Fig.



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38. XF822AU Analog Output Module with terminal socket Legend 1 2 3 4 5 6 Service button S1 Hex switch S2 Manual overrides Output LEDs Service LED Power LED override mode Table 29. Analog Output Module status LED behavior automatic mode brightness follows the commanded output signal flashes Functionality of service LED and power LED: see Table 42 and following. EN1B-0410GE51 R0908A 24 Excel 800 Description of the I/O Modules Modules with Manual Overrides The XFR822AU/XFLR822AU Analog Output Modules are equipped with manual overrides: one rotary knob for each analog output.

The manual overrides can be set manually to either "auto" or "0 110%".

This updating (synchronization) is performed: · If the calculated position of the actuator < lower synchronization threshold (2 %) = synchronization towards 0 % · If the calculated position of the actuator > upper synchronization threshold (98 %) = synchronization towards 100 % · Following any power-up or any reset NOTICE Damage to the electronic module! Do not use a tool to adjust the rotary knobs. Do not use excessive force. Adjust only by hand. XFL822AU Connection Example L N 24V 14507287 POWER MODULE ~ XFL822AU 8 11 1 73 Umax = 11 VDC Imax = 1 mA, -1 mA XSL511 GND SIGNAL 24VAC M Fig. 40. XFL822AU Analog Output Module Synchronization Behavior of Analog Output Module Configured as Floating Output In order to regularly update the real actuator position with the calculated position and thus ensure that the actuator definitely reaches its end position, a synchronization process is performed by the Analog Output Module. During the synchronization process, the Analog Output Module will continue running for the configured runtime once it reaches the calculated end position. 25 EN1B-0410GE51 R0908A Description of the I/O Modules Excel 800 Binary Input Modules Types of Binary Input Modules Table 30. Excel 800 Binary Input Modules type XF823 XFL823 XS823 description Panel Bus Binary Input Module LONWORKS Bus Binary Input Module terminal socket housing light-gray dark-gray light-gray Terminals 71 COM A 72 73 74 COM B 24 V~ 24 V~0 COM A COM B 24 V~ 24 V~0 75 76 77 78 BI1 BI2 BI3 BI4 BI5 BI6 BI7 BI8 BI9 BI10 BI11 BI12 1 2 3 4 5 6 7 8 9 10 11 12 GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Features · 12 binary inputs · 12 configurable status LEDs (green/red, yellow/OFF) · Binary inputs can be used as Static digital inputs as dry-contacts Table 31. Description of Binary Input Module terminals terminal 71, 75 72, 76 73, 77 74, 78 13 24 25, 26 signal COM a COM b 24 V~ 24 V~0 GND comment 2-wire communication bus (LON/Panel Bus) 2-wire communication bus (LON/Panel Bus) Power supply Power supply Ground.

All grounds are connected internally to each other. Shield connection (functional earth), internally connected to the DIN rail. Shield connection to be used for shielded I/O cables only. It is not allowed to connect a LONWORKS shield. Fig. 42. Terminal assignment and internal connections of Binary Input Modules 1 12 BI1 BI12 Binary inputs 1 12 NOTE: Fig. 41. XF823AU Binary Input Module with terminal socket Legend 1 2 3 4 5 Service button S1 Hex switch S2 Input LEDs Service LED Power LED Technical Data Table 32. Technical data for of Binary Input Modules input type current rating (closed input) open contact voltage dry-contact 2 mA 16 22 VDC Functionality of service LED and power LED: see Table 42 and following.

EN1B-0410GE51 R0908A 26 Excel 800 Description of the I/O Modules Status LEDs The status LEDs can be configured individually for use as either alarm LEDs (red/green) or as status LEDs (yellow/OFF [default]). Given a state of "logical ON," the LED will be lit (yellow or red). XF823AU Connection Examples 1 1 13 2 5 TO 24V 25 SHIELD 2 14 2 MIN. 25 MS MIN. 25 MS 1 1 CONTACT SUITABLE FOR LOW VOLTAGE (GOLD).

PROTECTED SWITCHING UP TO 40 VDC / 24 VAC. 3 15 2 5 TO 24 VDC 1 ~ 120V PT1000 NTC20kW Fig. 43. XFL823AU Binary Input Module 27 EN1B-0410GE51 R0908A Description of the I/O Modules Excel 800 Relay Output Modules Types of Relay Output Modules Table 33. Excel 800 Relay Output Modules type XF824 XFR824 XFL824 XFLR824 XS824-25 description Panel Bus Relay Output Module Panel Bus Relay Output Module with manual overrides LONWORKS Bus Relay Output Module LONWORKS Bus Relay Output Module with manual overrides terminal socket; can be fitted with long (red) cross connector (incl.

in scope of the delivery) housing light-gray light-gray dark-gray dark-gray light-gray Terminals 72 COM B 73 74 24 V~ 24 V~0 71 COM A COM A COM B 24 V~ 24 V~0 75 76 77 78 Relay block 1 NO NC COM CON Relay block 2 11 12 13 14 NO 21 NC 22 COM 23 CON 24 NO NC COM CON 31 32 33 34 NO NC COM CON 41 42 43 44 NO NC COM CON 51 52 53 54 NO NC COM CON 61 62 63 64 25 Cross connector (can be removed, as desired) Fig. 45.

Terminal assignment and internal connections of Relay Output Modules Features · 6 relays (changeover contacts), arranged in two blocks · XFLR824AU, XFR824AU: 6 manual overrides · Low and line voltage allowed, see WARNING. Fig. 44. XF824AU Relay Output Module with terminal socket Legend 1 2 3 4 5 6 Service button S1 Hex switch S2 Manual overrides Status LEDs Service LED Power LED Functionality of service LED and power LED: see Table 42 and following. EN1B-0410GE51 R0908A 28 Excel 800 Description of the I/O Modules Table 34. Description of Relay Output Module terminals terminal signal comment Permissible Loads Table 35. Permissible loads of Relay Output Modules max. load per relay output module (total) (common) per normally open contact (common) 24 VAC, 60 Hz 12 A 24 VDC 12 A resistive, 12 A, 0.

6 PF 24 VAC, 60 Hz 4A 24 VDC 4 A resistive, 4 A, 0.6 PF 24 VAC, 2 A, 60 Hz 24 VDC 4 A resistive, 4 A, 0.6 PF 2-wire communication bus COM a 71, 75 (LON/Panel Bus) 2-wire communication bus COM b 72, 76 (LON/Panel Bus) 24 V~ 73, 77 Power supply 24 V~0 74, 78 Power supply REL1 N.O. Relay 1 N.O. contact 11 REL1 N.C. Relay 1 N.C.

contact 12 R1 COM 13 relay 1 common contact For connection of relay 1 common via R1 COM 14 cross connector* REL2 N.O. Relay 2 N.O. contact 21 REL2 N.

C. Relay 2 N.C. contact 22 R2 COM 23 Relay 2 common contact For connection of relay 2 common via R2 COM 24 cross connector* REL3 N.O. Relay 3 N.O. contact 31 REL3 N.C. Relay 3 N.C. contact 32 R3 COM 33 Relay 3 common contact For connection of relay 3 common via R3 COM 34 cross connector* REL4 N.O. Relay 4 N.O.

contact 41 REL4 N.C. Relay 4 N.C. contact 42 R4 COM 43 Relay 4 common contact For connection of relay 4 common via R4 COM 44 cross connector* REL5 N.O. Relay 5 N.O. contact 51 REL5 N.C.

Relay 5 N.C. contact 52 R5 COM 53 Relay 5 common contact For connection of relay 5 common via R5 COM 54 cross connector* REL6 N.



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O. Relay 6 N.

O. contact 61 REL6 N.C. Relay 6 N.C.

contact 62 R6 COM 63 Relay 6 common contact For connection of relay 6 common via R6 COM 64 cross connector* Shield connection (functional earth), 25 internally connected to the DIN rail * Do not connect by wire! RELAY BLOCK 1 per normally closed contact (common) Status LEDs with Manual Overrides 5 6 1 2 4 3 Honeywell --1 --0 --AUTO ! RELAY BLOCK 2 Fig. 46. @@@@Table 36. @@47. @@48. XFR825AU connection example EN1B-0410GE51 R0908A 30 Excel 800 Troubleshooting Troubleshooting Testing Wiring Connections The push-in terminals feature small holes (1 mm in diameter) which can be used to measure the signals. Insert a probe (1) as shown on the right. Fig. 49. Testing wiring connections Troubleshooting on the XCL8010AU Controller The following LEDs of the XCL8010AU Controller can be used for troubleshooting purposes: · Power LED (green) · Alarm LED (red) · LONWORKS service LED · C-Bus Tx and Rx LEDs · HMI Tx and Rx LEDs Power LED (green) Table 37.

XCL8010AU power LED case 1 2 ON Flashing power LED Normal operation One or more of the internal voltage supplies are outside of the permissible ranges. The controller stops operation. · The operator has activated the reset button · The controller is performing a warm start meaning remedy No action necessary Check power Check wiring If problem persists, replace hardware 3 Goes out briefly No action necessary 31 EN1B-0410GE51 R0908A Excel 800 Alarm LED (red) Table 38. XCL8010AU alarm LED case 1 2 OFF ON alarm LED Normal operation Watchdog alarm output is powered The controller has encountered a hardware problem - or The application has a fault - or The controller has been powered up without an application or the operator has manually stopped the application, e.g., using XL-Online. In this case, the LED will light up 13 minutes after power-up without application 3 Flashing Although the controller has encountered a problem, the watchdog alarm output has not yet been powered. If problem persists, the LED will become lit constantly, see case #2. The controller performs a warm start. If it happens only once, the controller has performed a restart If, however, it happens multiple times, then there is an application or hardware problem (see case #2) meaning remedy No action necessary Try powering down and then powering up the XCL8010AU.

If problem persists, check and if necessary reload the application. If problem still persists, replace hardware LONWORKS Service LED Fig. 50. Flashing pattern of the LONWORKS service LED The LONWORKS service LED of the XCL8010AU Controller Module displays the following flashing patterns indicating possible failure modes: EN1B-0410GE51 R0908A 32 Excel 800 Troubleshooting Table 39. XCL8010AU LONWORKS service LED case 1 2 3 4 When can it occur? Anytime Power up of controller Power up of controller Power up / reset meaning Node is configured and running normally Bad node hardware Bad node hardware Node lacks application.

May be caused by neuron chip firmware when a mismatch occurs on application checksum remedy No action necessary Replace hardware Replace hardware Using EXCELON, set module to "configured online" If problem persists, the MIP software on LW interface has been erased due to wrong setting performed using ECHELON tool: Replace hardware 5 Anytime Watchdog timer resets occurring. Possible corrupt EEPROM and bootstrap mode Node is unconfigured but has an application Download firmware 6 Anytime Proceed with commissioning C-Bus Tx and Rx LEDs Table 40. XCL8010AU C-Bus Tx and Rx LEDs case 1 C-Bus LEDs Both LEDs are flashing meaning If the C-bus is functioning properly, then the XCL8010AU is functioning properly If the C-bus is not functioning properly, then the termination can be wrong 2 3 Both LEDs are OFF Both LEDs are flashing synchronously No C-bus communication No C-bus communication remedy No action necessary Check C-bus termination switch S1 (location: see Fig. 4 on page 7) Check C-bus settings Check C-bus wiring HMI Tx and Rx LEDs Table 41. XCL8010AU HMI Tx and Rx LEDs case 1 2 HMI LEDs Both LEDs are flashing Both LEDs are OFF meaning If the HMI Interface is functioning properly, then the XCL8010AU is functioning properly No HMI Interface communication remedy No action necessary Check HMI Interface connection and proper earthing of connected hardware 33 EN1B-0410GE51 R0908A Excel 800 I/O Modules Troubleshooting Check if the power supply voltage level is OK and that there is no high voltage (> 24 VAC or > 40 VDC) connected to the inputs/outputs of the XF821AU, XFL821AU, XF822AU, XFL822AU, XFR822AU, XFLR822AU, XF823AU, and XFL823AU I/O modules.

Replace the problem I/O module with another module of the same kind. If the problem persists, this is an indication that the problem is caused by the application or incorrect wiring. If the problem is solved, this is an indication that the I/O module was defective. For troubleshooting purposes on all I/O modules the following features can be used: · Power LED · Service LED · Service button In addition, a module-specific troubleshooting may be necessary. Power LED of I/O Modules Table 42. Power LED of I/O modules case 1 2 3 ON OFF Flashing continuously power LED meaning I/O module is powered No power If the I/O module's service LED is likewise flashing, the I/O module is in the boot mode remedy No action necessary Check power supply Wait until rebooting (firmware download) has been completed EN1B-0410GE51 R0908A 34 Excel 800 Troubleshooting Service LED of I/O Modules Table 43. Service LED of I/O modules case 1 Service LED LED remains OFF after power-up meaning If the power LED is also OFF, then Defective device hardware Possible power supply problems, clock problems, defective processor · LONWORKS Bus I/O modules: Defective hardware · Panel Bus I/O modules: I/O module has not yet been configured by XCL8010AU Boot loader is active Failure during last firmware download Checksum error Replace hardware remedy 2 LED is lit continuously after first power-up LONWORKS Bus I/O modules: Replace hardware Panel Bus I/O modules: Set the hex address to the position configured with CARE Ensure that I/O Bus switch S2 of XCL8010AU is set to position "Panel" Check the Panel Bus wiring: - Check for cable breaks - Check for cable short-circuits - If using separate transformers: Check ground connection Eliminate any mixture of Panel Bus I/Os and LonWorks I/Os on same wire Allow XCL8010AU to configure I/O module Unplug and replug the module If problem persists, replace hardware Panel Bus I/O modules, only: Wait until rebooting (firmware download) has been completed Download application 3 Alternating flash between service LED and power LED LED flashes at power up, goes OFF, and then is lit continuously LED repeatedly blinks ON for 1 sec and OFF for 1 sec LED remains OFF after a short ON duration LED flashes continuously in following pattern: 4 x ON/OFF followed by pause LED flashes continuously in following pattern: 5 x ON/OFF followed by pause LED flashes continuously in following pattern: 6 x ON/OFF followed by pause LED flashes continuously in following pattern: 7 x ON/OFF followed by pause Panel Bus I/O modules, only: Download error or application checksum error.



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Boot loader is running LONWORKS Bus I/O modules, only: LONWORKS Bus I/O module lacks application 4 5 LONWORKS Bus I/O modules, only: Set module to configured mode LONWORKS Bus I/O module is unconfigured, but has an application I/O module is configured and running normally Sensor failure of Analog Input Module (in case of LONWORKS Bus I/O modules, this behavior can occur only if the appropriate NV has been bound) LONWORKS Bus I/O modules, only: LONWORKS I/O Bus module has received the wink command from network, physical outputs are unaffected Boot loader problem or hardware defect No action necessary Check sensor or connection Check sensor configuration 6 7 8 No action necessary 9 Replace hardware 10 Communications failure Check bus wiring Ensure that I/O Bus switch S2 of XCL8010AU is set to correct position Ensure that LONWORKS Bus I/O modules and Panel Bus I/O modules are not sharing same bus In case of Panel Bus I/O modules, only: Check for incorrect HEX addresses (2 Panel Bus I/O modules using same HEX address) In case of LONWORKS Bus I/O modules, only: Check heartbeat 35 EN1B-0410GE51 R0908A Excel 800 Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative: Automation and Control Solutions Honeywell GmbH Böblinger Strasse 17 71101 Schönaich / Germany Phone: (49) 7031 63701 Fax: (49) 7031 637493 <http://ecc>.

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