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Lenel Inl 3300 installation guide

Lenel Inl 1320 installation guide. Lenel installation guide.

advertisement ▼ Scroll to page 2 of 184 advertisement Thank you for your participation! * Your assessment is very important for improving the work of artificial intelligence, which forms the content of this project User Manuals, Guides and Specifications for your Lenel LNL-3300-M5 Controller. Database contains 1 Lenel LNL-3300-M5 Manuals (available for free online viewing or downloading in PDF): Installation manual. How to connect and initially configure an LNL-2220 or LNL-3300 access panel via the Web configuration page Procedure Steps 1) Configure the computer IP address in the range of 192.168.0.2 to 192.168.0.254, except for 192.168.0.251 as this address is the default IP address of the LNL-2220 or LNL-3300.2) Connect the LNL-2220 or LNL-3300 to the computer.3) Turn DIP switch 1 OFF, 2 ON, 3 OFF, and 4 OFF.4) Cycle power to the LNL-2220 or LNL-3300.5) Wait approximately 30 seconds for the panel to reboot.6) Browse to the following address via Internet Explorer:) Click on the link "Click here to login."8) Turn DIP switch 1 ON.9) Log onto the Web configuration page with a user name of "admin" and a password of "password."10) After you are logged onto the Web configuration page, configure the LNL-2220 or LNL-3300 as required. NOTE: LNL-2220 and LNL-3300 cannot be configured with the private IP range 169.254.xxx.xxx.11) Turn all DIP switches OFF.12) Navigate to the Apply Settings page.13) Click [Apply settings and reboot].14) Connect the LNL-2220 or LNL-3300 to its intended network, and then continue to configure it in System Administration. OnGuard (All Versions) For more information, refer to the System Administration User Guide and the Hardware Installation Guide. The LNL-X3300 intelligent controller provides decision-making, event reporting, and database storage for the Lenel hardware platform. The LNL-X3300 communicates with the host via on-board 10-Base-T/100Base-TX Ethernet port or the Micro USB port (2.0) with an optional Micro USB to Ethernet adapter. Sub controllers are connected via ports 1 and 2 using 2-wire RS-485 multi-drop communication buses. The LNL-X3300 requires 12 to 24 VDC for power. Connection TB1-1 Power Fault Input GND TB1-2 FLT TB1-3 Cabinet Tamper Input GND TB1-4 FLT TB1-5 Power Input GND TB1-6 VIN: 12 to 24 VDC TB2N/A Not Used TB3-1 SIO Port 1 (2-wire RS-485) GND TB3-2 TR- (B) *TB3-3 TR+ (A) *TB4-1 SIO Port 2 (2-wire RS-485) GND TB4-2 TR- (B) *TB4-3 TR+ (A) ** Terms A & B are from the RS-485 standard. The LNL-X3300 controller hardware interface is configured using jumpers to set up the port interface and end of line termination. Jumper Set at Description | 1N/A10-Base-T/100Base-TX Ethernet Connection (Port 0) | 2N/A Factory Use Only | 3N/A Factory Use Only | 4 OFF Port 1 RS-485 EOL Terminator is Off | ON Port 2 RS-485 EOL Terminator is On | 5 OFF Port 2 RS-485 EOL Terminator is Off | ON Port 2 RS-485 EOL Terminator is On | 6N/A MicroSD Card | 7N/A USB Port (2.0) | 8-1N/A Remote Status LED #1 * | 8-2N/A Remote Status LED #2 * | 8-3N/A Remote Status LED #3 * | 8-4N/A Remote Status LED #4 * | 9 OFF Backup battery is Off | ON Backup battery is On. Refer to Memory and Real Time Clock Backup Battery. * Observe polarity connection to LED.



External current limiting is not required. The four switches on S1 DIP switch configure the operating mode of the LNL-X3300 controller. DIP switches are read on power-up except where noted. Pressing reset switch S2 causes the LNL-X3300 to reboot. 1234 Definition OFF OFF OFF OFF Normal operating mode. ON X OFF F After initialization, enable default User Name (admin) and Password (password). The switch is read on the fly, no need to reboot. For more information, refer to IT Security. OFF ON OFF OFF Use factory default communication parameters. * ON ON OFF OFF Use Lenel default communication parameters. * Contact system manufacturer for details. See Bulk Erase Configuration Memory. ON ON OFF OFF Bulk Erase prompt mode at power up. See Bulk Erase Configuration Memory. XXXON Makes the LNL-X3300 report and function like an LNL-3300. To be used in situations where the host software has not been updated to support the LNL-X series product line. X = ON or OFF. All other switch settings are unassigned and reserved for future use. * In the factory or Lenel default modes, downloaded configuration/database is not saved to flash memory. Interface 1 (NIC1) Network: static IP address: 192.168.0.251 Subnet Mask: 255.255.0.0 Default Gateway: 192.168.0.1 DNS Server: 192.168.0.1 Primary Host port: IP server. Data Security: TLS if Available, port 3001. Communication address: 0 Alternate Host Port: Disabled The bulk erase function can be used for the following purposes: Erase all configuration and cardholder database (sanitize board, less third party applications) Update OEM default parameters after OEM code has been changed Recover from database corruption causing LNL-X3300 board to continuously reboot If clearing the memory does not correct the initialization problem, contact technical support. Set S1 DIP switches to: 1 & 2 "ON," 3 & 4 "OFF." Apply power to the LNL-X3300 board. LED 1 on for about 15 seconds while LNL-X3300 boots up. After the LNL-X3300 boots up, watch for LEDs 1 & 2 and 3 & 4 to alternately flash at a 0.5 second rate. Within 10 seconds after the above pattern starts, change switches 1 or 2 to "OFF." If these switches are not changed, the LNL-X3300 board will power up using the OEM default communication parameters. LED 2 will flash indicating that the configuration memory is being erased. Full memory erase takes up to 60 seconds, usually a lot less. When complete, only LEDs 1 & 4 will flash for about 3 seconds. The LNL-X3300 board will complete its initialization in 2 seconds after LEDs 1 & 4 stop flashing. The LNL-X3300 controller communicates to the host via the on-board Ethernet 10-Base-T/100Base-TX port and/or the USB port (2.0) with an optional USB to Ethernet adapter. Ports 1 and 2 utilize 2-wire RS-485 interface. The interface allows multi-drop communication on a single bus of up to 4,000 feet (1,219 m). Use 1-twisted pair, shielded, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum cable length. Port 1: 2-Wire RS-485 Port 2: 2-Wire RS-485 The static RAM and the real time clock are backed up by a lithium battery when input power is removed. This battery should be replaced annually. If data in the static RAM is determined to be corrupt after power up, all data, including flash memory, is considered invalid and is erased. All configuration data must be re-downloaded. During installation and while the unit is not powered, change the Jumper (J19) position from OFF to ON to enable the battery backup. Battery type: BR2330 or CR2330. When installing the LNL-X3300, it is important to ensure that it is done in a secure manner. Upon installation, the user accounts to the web configuration page should be created with secure passwords, and that all DIP switches are in the off position for the normal operating mode. The LNL-X3300 is shipped from the factory with a default login account, which is enabled when DIP 1 is moved from OFF to ON. The default login user name and password will be available for five minutes once enabled. Therefore, it is important that at least one user account is defined, and the DIP switches are set to OFF before the LNL-X3300 is commissioned. It is also highly recommended not to configure the LNL-X3300 with an IP address that is accessible from the public Internet. To further enhance network security, options are available to disable SNMP, Zeroconf discovery, as well as the web configuration module itself. Additionally, data encryption can be enabled over the host communication port. Power-up: All LEDs OFF. Initialization: After power is applied or the reset switch is pressed, LED 1 is ON for about 15 seconds, then LEDs 2 through 6 are flashed once at the beginning of initialization. LEDs 3 and 4 turn ON for approximately 1 second after the hardware initialization has completed, then the application code is initialized. The amount of time the application takes to initialize depends on the size of the database, about 1 second without a card database. Each 10,000 cards adds about 2 seconds to the application initialization. When LEDs 1 through 4 flash at the same time, data is being read from or written to flash memory; do not cycle power when in this state. If the sequence stops or repeats, perform Bulk Erase Steps. Running: After initialization is complete, the LEDs have the following meanings: LED Description | Off-line / On-line and battery status | Off-line = 20% ON, On-line = 80% ON | Double flash if battery is low | 2 Host communication activity (Ethernet) | 3 Port 1 Communication Activity | 4 Port 2 Communication Activity | 5 Unassigned | 6 Unassigned | 8 Ethernet Activity (Ethernet Port 0) | 9 TEL On-board Ethernet Speed: OFF = 10 Mb/S, ON = 100 Mb/S | GRN OFF = No Link, ON = Good Link, Flashing = Ethernet Activity Specifications The interface is for use in low voltage, Class 2 circuits only. The installation of this device must comply with all local fire and electrical codes. Primary Power: 12 to 24 VDC ± 10%, 250 mA maximum (USB port current not included) Micro USB Port: 5 VDC, 500 mA maximum (add 270 mA to primary power current) Memory and Clock Backup Battery: 3 Volt Lithium, type BR2330 or CR2330 | microSD Card: Format: microSD or microSDHC, 2GB to 8GB | Host Communication: Ethernet: 10-Base-T/100Base-TX and Micro USB port (2.0) with optional adapter; pluggable model USB2-OTG100 | Serial I/O Device: Two each: 2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit | Inputs: Two unsupervised dedicated for cabinet tamper and UPS fault monitoring | Cable Requirements: Power: 1 twisted pair, 18 AWG Ethernet: CAT-5, minimum RS-485: 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum cable length | Environmental: Temperature: Storage: -55 to +85 °C (-67° to 185° F) | Operating: 0 to +70 °C (32° to 158° F) | Humidity: 5 to 95% RH | Mechanical: Dimensions: 5 in. (127 mm) W x 6 in. (152.4 mm) L x 1 in. (25 mm) H | Weight: 4.1 oz. (115 gm) nominal This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. It is expressly understood and agreed that the interface should only be used to control exits from areas where an alternative method for exit is available. This product is not intended for, nor is rated for operation in life-critical control applications. LenelS2 is not liable under any circumstances for loss or damage caused by or partially caused by the misapplication or malfunction of the product. 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For more information on warranty disclaimers and product safety information, please check or scan the following code: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184