LynTec XPC

Xtend Power Control Series

Instruction Bulletin

XRS-80
WEB CONTROLLED
AC POWER DISTRIBUTION

Retain for future use.

HAZARD CATEGORIES AND SPECIAL SYMBOLS

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates an immediately hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, **can result in** death or serious injury.

⚠CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **can result in** minor or moderate injury.

CAUTION

CAUTION, used without the safety alert symbol, indicates a potentially hazardous situation which, if not avoided, **can result in** property damage.

NOTE: Provides additional information to clarify or simplify a procedure.

PLEASE NOTE

Electrical equipment should be installed, operated, serviced and maintained only by qualified electrical personnel. This document is not intended as an instruction manual for untrained persons. No responsibility is assumed by LynTec for any consequences arising out of the use of this manual.

Contents

Chapter 1--Introduction

OVERVIEW

The LynTec XRS-80 is a microcontroller based power distribution device that can be accessed via Internet or intranet communications using an Ethernet connection. With this remote access, individual AC circuits can be turned on and off and AC power receptacles can be monitored for electrical current flow.

The XRS-80 has four 20 amp capacity circuits.

SAFETY PRECAUTIONS

The XRS-80 is designed to operate at 120 volts, 60 hertz. Operation with any voltage or frequency other than that can damage the equipment and create an unsafe situation.

CAUTION #1: This device must be grounded.

CAUTION #2: This device should be installed only by qualified electrical technicians using appropriate mounting hardware and correct installation techniques. Before installing make sure main power is off.

CAUTION #3: Do not expose this product to moisture or salty air. Doing so could cause significant damage and create an unsafe condition.

DISCLAIMER

LynTec shall under no circumstances be held responsible for any losses, damage, or injury resulting directly or indirectly from the use of the XRS-80 device in a manner contrary to accepted safe operating methods or any instructions contained in this document. The user should determine prior to use whether this product is adequate, suitable and safe for the application intended. Since individual applications can be subject to extreme variation LynTec makes no representation or guarantee as to the suitability of the XRS-80 for any generally described application.

Chapter Two--Quick Start Guide

1. Unbox the unit. The box should contain: XRS-80 device and user manual QR. You will need to have the XRS-80 hard wired installed by a qualifiedelectrician.Y ou will need a CAT5 network cable if attaching to a router, a CAT 5/6 crossover cable if connecting directly to a PC. Apply power to circuit #1.

2. With your PC/laptop on and booted up, connect the XRS-80 to your router or directly to a PC/laptop using a suitable cable. If the XRS-80 is connected to a network router use a standard CAT 5 cable, if connected directly to a PC/laptop use a CAT 5/6 crossover cable.

3. The XRS-80 will take about 30 seconds to boot up and configureitselfatwhichpointtheNetworklightonthe front of the unit will illuminate, indi-cating network connectivity. If the Network light blinks or does not light at all check the cable connections.

4. Open up your web browser and type in the following default IP address to access the XRS-80: http://192.168.1.250

5. At this point you will be prompted to log into the XRS-80.
    Initial login:
    Username: admin
    Password: pw

6. Use the "Network Setup" page to set a specific static IP address for your installation.

7. See your system administrator, if you have one, for help with configuration.

Chapter 3--Detailed Installation and Setup

SETUP DETAIL

Unbox the unit. The box should contain: XRS-80 device and user manual QR. You will need to have the XRS-80 hard wired installed by a qualified electrician.

Connecting to the XRS-80 with a Router

1. Apply power to circuit #1.

2. Connect the XRS-80 to your network router using a Cat 5 cable plugged into the RJ45 "Network" port on the front of the unit and the other end to your network router.

3. The XRS-80 will take a few seconds to boot up and configure itself at which point the Network light on the front of the unit should illuminate and remain on without blinking, indicating network connectivity. If the Network light blinks check the cable connections.

4. Open a web browser on your PC or Laptop and type in the following address on the navigation bar to access the XRS-80: http://192.168.1.250 Be sure to type exactly as shown. No domain such as ".com" should be added.

5. You will be presented with the login box. Enter the following initial username and password:

> Initial login:
> Username: admin
> Password: pw

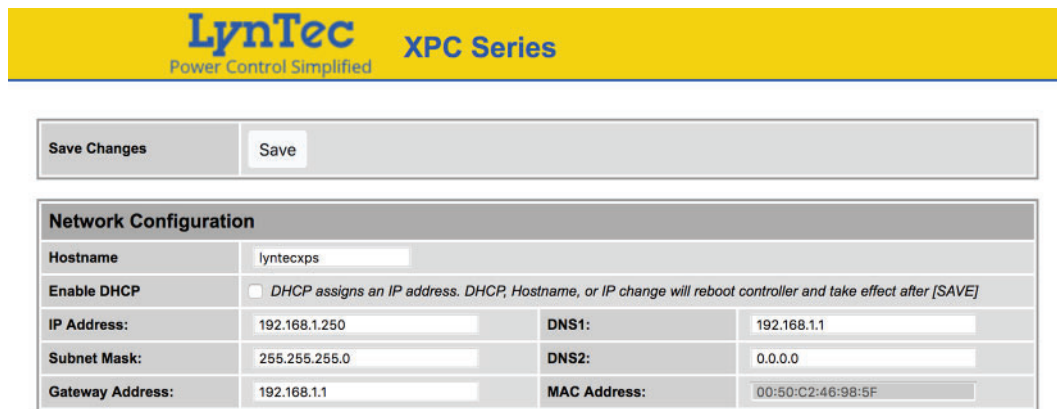**Connecting to the XRS-80 using a Crossover CAT5/6 cable**

To connect the XRS-80 to a PC or laptop directly you will need to change the properties of your internet connection/IP address.

1. Plug the CROSSOVER cable into the PC/laptop network socket and the other end into the XRS-80 Network socket .

2. The XRS-80 device will take a few seconds to boot up and configure itself at which point the Network light on the front of the unit should illuminate and remain on without blinking, indicating network connectivity. If the Network light blinks check the cable connections.

3. In Windows go to your start menu and navigate to the control panel. Then choose the Network Connections" icon.

4. Open Network connections by double clicking on it, select the LAN or HIGH-SPEED icon, right click on this and select properties.

5. Click once on the Internet Protocol item that you will see at the bottom of the list and select the properties button which is at the mid right.

6. Check the "Use the following IP address" box and then change the IP address to: 192.168.1.1, then change the Default Gateway address also to: 192.168.1.1.

7. Click OK and then close the network box.

8. Open a web browser on your PC and type in the following address on the navigation bar to access the XRS-80: 192.168.1.250.

9. The XRS-80 login box will appear, enter your login details and operate the XRS-80.

MANAGEMENT

Once you have logged into the XRS-80 you will see"Network Setup". You can configure the IP address and other required network settings (dependent on your personal network)

Network Setup

The Network Setup Page displays the current settings of the unit and the MAC address. This page is useful for retrieving all the information you may need to set up the XRS-80 on your network. Disable DCHP and set a static IP address for the XRS-80.

Chapter Four--Troubleshooting

TROUBLESHOOTING

The LynTec XPS-80 is ruggedly constructed and contains quality components. There are no user serviceable parts inside this device. Unauthorized service will void all existing warranties and may result in equipment damage and personal injury.

Should improper performance be observed consult the following guidelines for diagnosis.

Condition	Possible Causes	Solutions
The XRS-80 will not power up and network light is not lit.	Main utility power outage	Verify that the utility provided power for the building is available.
	Tripped breaker(s)	Check that the circuit breaker for circuit #1 is not tripped. Reset the circuit breaker by turning it OFF and then back ON.
The XRS-80 will not power down.	See power up causes above	Follow above solutions
I cannot connect to the XRS-80 via my network	Incorrect network cable	Check you are using the correct cable, standard CAT5 cable for router connection, crossover cable for direct to PC connection.
	Incorrect computer IP address	If you are connecting directly to a PC you will have to configure your computer to have a static IP address of 192.168.1.1. See your operating systems help file on how to do this.
	Incorrect username/password	Are you using the correct username and password? If you are accessing the login page and your login is failing you might need to reset to factory default and try again if you have forgotten the correct username/password combination. Contact LynTec for reset instructions

Detail Specifications

Chassis	16 Gauge Steel
Dimensions	32"l x 3.5"w x 2"d
Relay current rating	Four @ 30A
Number of circuits	Four @20A
Number of controlled Pods	Four (one per circuit)
Power input	4' external wire harness (4 line, 4 neutral, 1 ground)
Power Output	Four NEMA 5/20R Duplex
Input Voltage	120 VAC @60Hz
Communications input	Ethernet (RJ-45, 8-wire)
Communications Protocol	HTML
Front Panel Monitor	LED indicates network connection
Front Panel Control	Override switch to turn on in event of product or network fault
Standards	UL508A
FCC--Part 15, Class A	
ETL Tested to: CU 22.2-14 and UL508A	