



Instruction Manual

LAN Hub Controller

Model R190A

Digital Alert Systems, Inc.
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Warranty

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Liability under this warranty is limited to service, adjustment or replacement of defective parts (other than fuses and batteries) on any instrument or sub-assembly returned to the factory for this purpose, transportation charges prepaid.

This warranty does not apply to instruments or sub-assemblies subjected to abuse, abnormal operating conditions, or unauthorized repair or modification.

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In the event of a breach of the foregoing warranty, the liability of Monroe Electronics shall be limited to repairing or replacing the non-conforming goods and/or defective work, and in accordance with the foregoing, Monroe Electronics shall not be liable for any other damages, either direct or consequential.

Return Policy to Factory

Materials returned to Monroe Electronics must have a Return Material Authorization number. To obtain a RMA number, contact our A/V Switching & Control Customer Service at 585-765-2254 or fax 585-765-9330. Customers have 30 days to determine that the product ordered fills their need and performs as described in Monroe's literature. Units returned for approved repair or credit, must be in the original packaging including all parts and paperwork plus be in very good physical condition. If not, the customer is billed the cost to refurbish the unit and for missing accessories and merchandise. No products may be returned for exchange or credit after 12 months of the shipment date. Monroe reserves the right to repair or replace units under warranty.

Specifications

Number of relays

4 Individually controlled rated for 1Amp at 28 Volts DC, SPDT, NO, NC. Latch ON, Latch OFF, and Momentary from .1 to 86,400 Seconds.

Connections

10/100 baseT via RJ45

Power requirements

+ 12 volts DC; 100-240 VAC wall unit supplied

Indicator lights

One (1) to indicate Power on the front panel

Two (2) to indicate Connectivity, and Activity on the rear panel

Equipment Supplied

Power Supply

14 position plug

Front View



Rear View

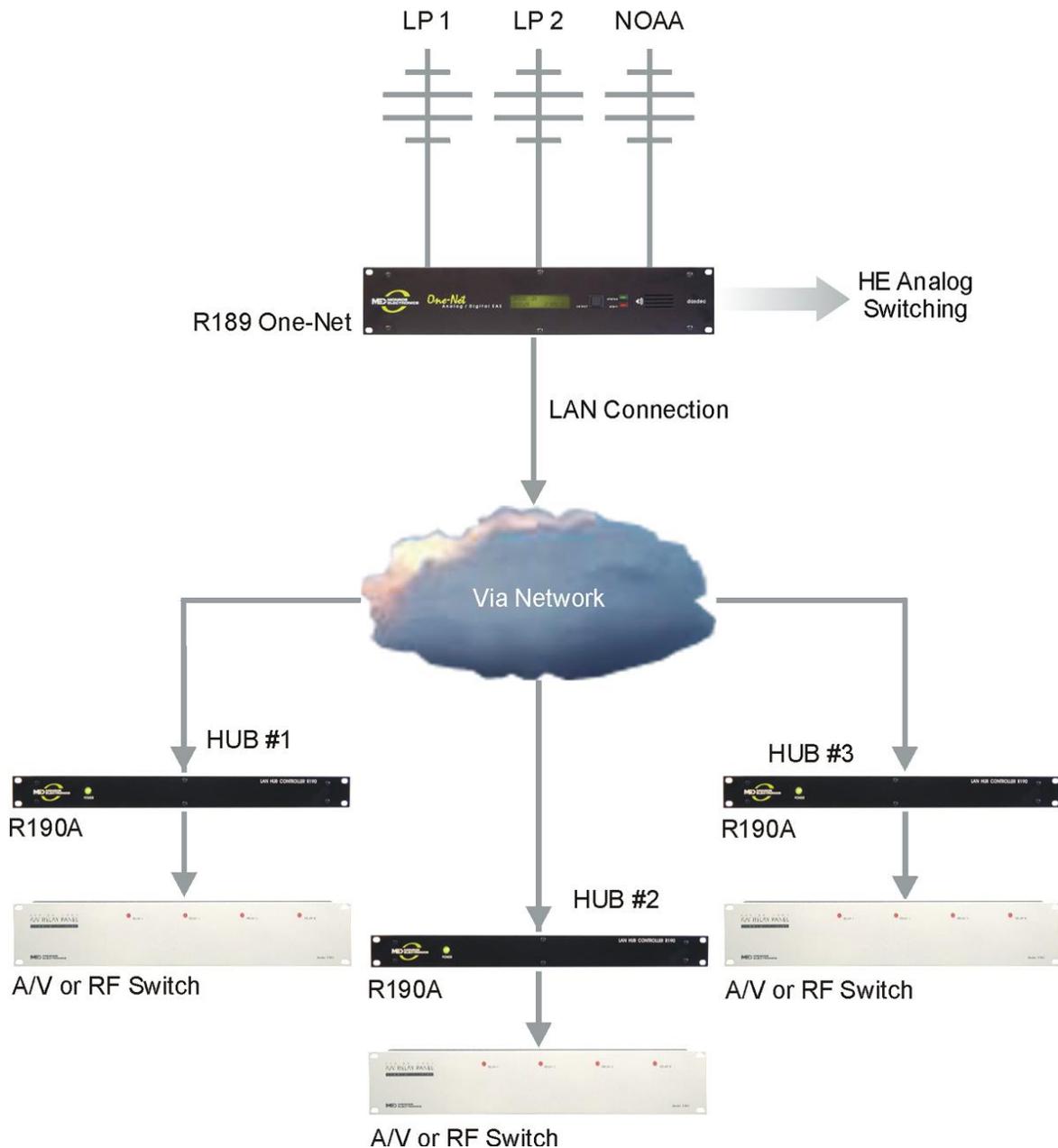


Section 1 EAS

General EAS Overview

The R190A Hub Controller provides the ability to switch equipment at a remote site or CATV Hub during EAS Alerts. It uses a LAN or WAN connection from a control device such as the R189 One-Net EAS Encoder/Decoder. The unit has 4 relays that are individually addressable. When used with the One-Net, they may be triggered based on FIPS codes.

Typical R190A Application



Section 1 EAS

EAS Getting Started

Setting the IP address – The R190A comes with a default IP address of 192.168.1.2. Access the device as follows:

Directly connecting a networked host computer

Connect a CAT-5 network crossover cable to the RJ45 port at the back of the R190A and to the RJ45 port of the network interface card (NIC) of a standalone PC or notebook computer. Configure the standalone PC to use the static IP address 192.168.1.3 with a net mask of 255.255.255.0. After the R190A powers up it can be accessed via a Web browser on the host computer.

Launch a Web browser application and direct the URL to <http://192.168.1.2/>. The R190A will provide a gateway page and quickly redirect to the R190A Home page. To edit the R190A's IP address type the following IP address <http://192.168.1.2/setup.html>.

LAN connection with a networked host computer

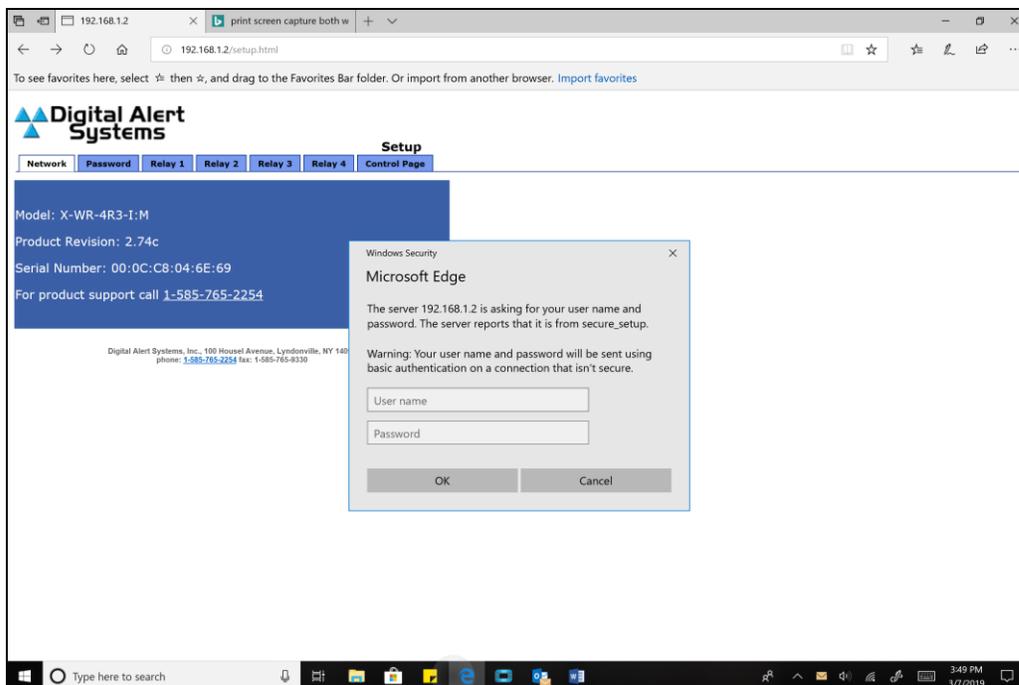
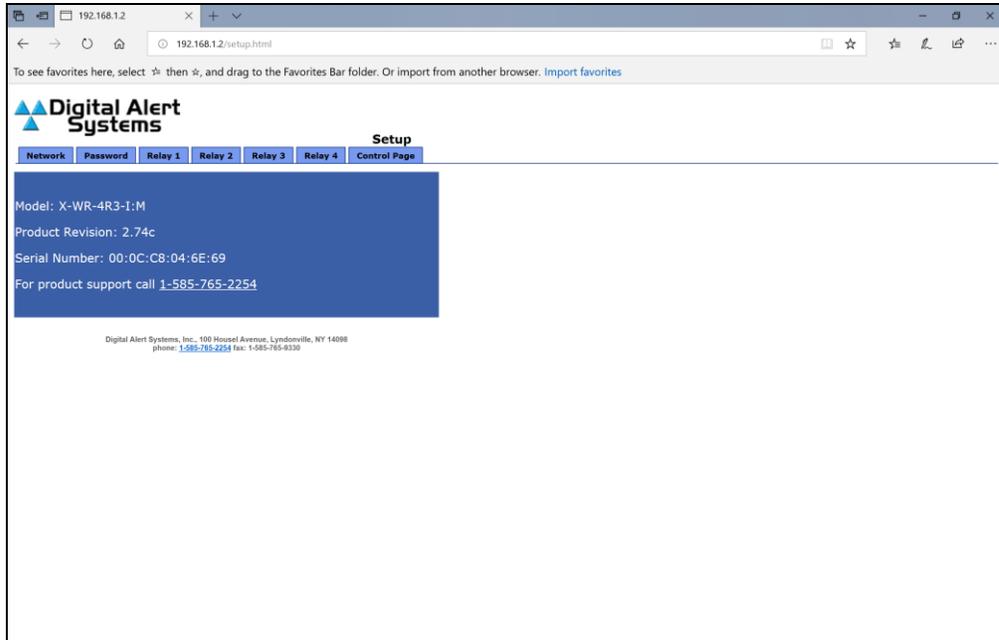
Connect a standard CAT-5 network cable from the RJ45 port at the back of the R190A into a routing hub or other network-switching device. You will likely need assistance from a network administrator to insure the R190A's default network address of 192.168.1.2 will be visible on the network, or will not clash with an existing node. Once the R190A is powered up it can be accessed via a Web browser from any remote computer on the LAN routed to see the address 192.168.1.2.

WHEN A SUCCESSFUL CONNECTION IS ESTABLISHED TO THE R190A THE FOLLOWING SCREEN WILL BE DISPLAYED THROUGH THE BROWSER:

Section 1 EAS

Setup Configuration – The Setup mode of the R190A allows you customize several settings. Some of the settings are the unit's IP address, Netmask, Gateway, network speed, mode and passwords. There is no user name required to log into the Setup, and the default password is shown in bold between the quotes **"digital"**. The following screenshots show the setup pages.

Please note: Rev H units and earlier the password is 'monroe'. Beginning with Rev I units and later the password is 'digital'.



Section 1 EAS

The screenshot shows a web browser window at the address 192.168.1.2/setup.html. The page header includes the Digital Alert Systems logo and a navigation menu with tabs for Network, Password, Relay 1, Relay 2, Relay 3, Relay 4, and Control Page. The main content area displays the following information:

- Model: X-WR-4R3-1:M
- Product Revision: 2.74c
- Serial Number: 00:0C:C8:04:6E:69
- For product support call 1-585-765-2254

Below this information is the contact address: Digital Alert Systems, Inc., 100 Housat Avenue, Lyndonville, NY 14094, phone: 1-585-765-2254 fax: 1-585-765-4330. A Windows Security dialog box is overlaid on the page, titled "Microsoft Edge". It contains the following text:

The server 192.168.1.2 is asking for your user name and password. The server reports that it is from secure_setup.

Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.

The dialog box has input fields for "User name" and a password field (masked with dots). It also has "OK" and "Cancel" buttons.

This screenshot shows the same web browser window, but the Windows Security dialog box is no longer present. The "Network" tab is selected in the navigation menu. The page displays the following network configuration options:

Network: Network parameters require reboot before they take effect.

IP Address:	192	168	.1	.2
Netmask:	255	255	255	0
Broadcast:	192	168	.1	.255
Gateway:	192	168	.1	.1
TCP Port:	80			
Modbus Port:	502			

Speed: 10 Mbps 100 Mbps
Mode: Half Duplex Full Duplex

At the bottom of the configuration area are "Submit" and "Reset" buttons.

Section 1 EAS

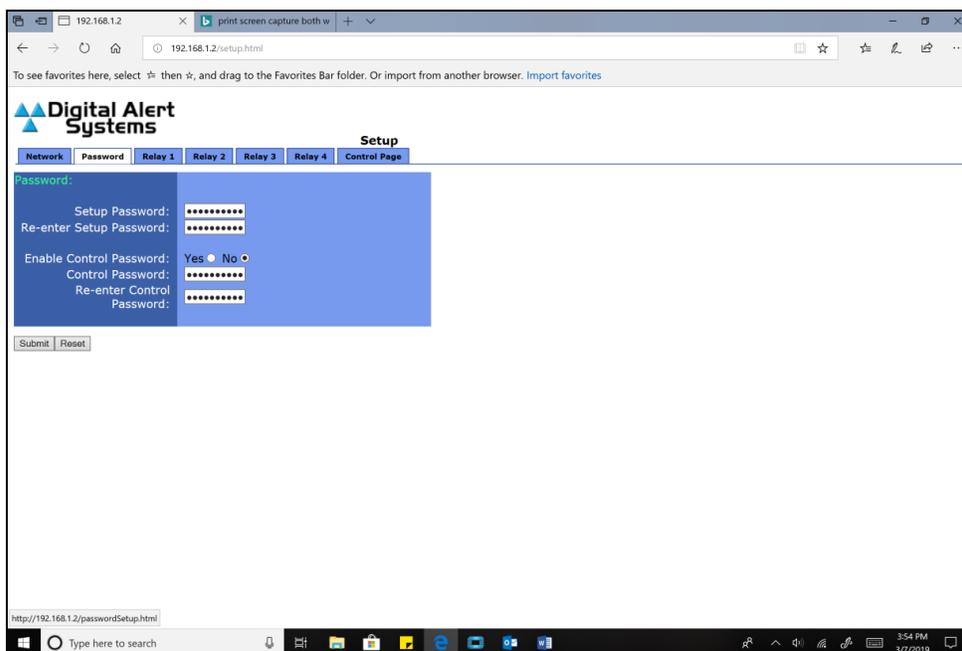
Changing the Network settings – Enter the new network settings as desired. When you have reviewed you settings and want to keep them click on “Submit”. These new changes will show up in the Network tab, but will not take affect until the power is removed and reapplied to the unit.

Permanent storage of IP change – To store the new Network settings into memory, remove the power from the unit, wait approximately 10 seconds, and reconnect the power to the unit.

Note: To set the unit back to the default Network settings, remove the power from the unit, press and hold the Reset button on the back of the unit, and reconnecting the power to the unit. After approximately 10 seconds you can release the Reset button and the unit will be set back to the default IP address of 192.168.1.2.

Password Settings – The R190A allows you to program a Setup and a Control password. The unit is defaulted with a Setup password of “**digital**”, and the Operation password is disabled. If changes are made to either the Setup or the Operation password, you must click on the “Submit” button to store the change. Passwords may be up to 10 characters in length. If the passwords are forgotten, the R190A can be set back to factory defaults by removing the power from the unit, pressing and holding the Reset button on the back of the unit, and reconnecting the power to the unit. After approximately 10 seconds you can release the Reset button and the unit will be set back to the default password of “**digital**” for the Setup and no password for the Control. **Caution:** Pressing the reset switch will reset ALL user settings back to default. This includes network IP address and associated settings.

**Please note: Rev H units and earlier the password is ‘monroe’.
Beginning with Rev I units and later the password is ‘digital’.**



The screenshot shows a web browser window with the address bar displaying "192.168.1.2/setup.html". The page title is "Digital Alert Systems" and the page is titled "Setup". The navigation menu includes "Network", "Password", "Relay 1", "Relay 2", "Relay 3", "Relay 4", and "Control Page". The "Password" section is active and contains the following fields:

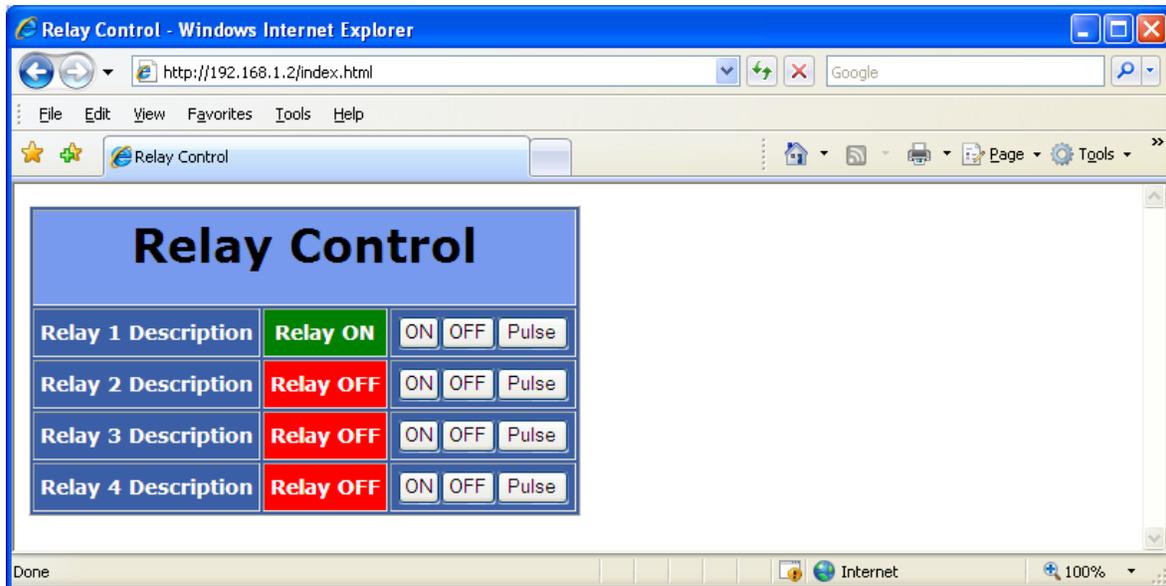
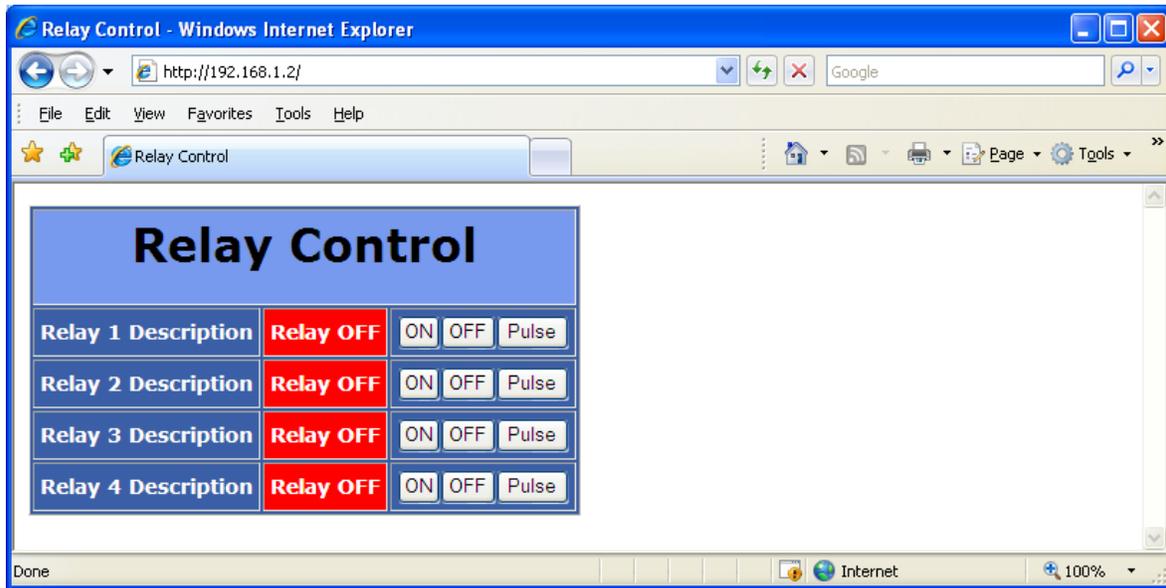
- Setup Password: [password field]
- Re-enter Setup Password: [password field]
- Enable Control Password: Yes No
- Control Password: [password field]
- Re-enter Control Password: [password field]

At the bottom of the form are "Submit" and "Reset" buttons. The browser's address bar shows "http://192.168.1.2/passwordSetup.html". The Windows taskbar at the bottom shows the date and time as 3:54 PM on 3/7/2019.

Section 1 EAS

Operation

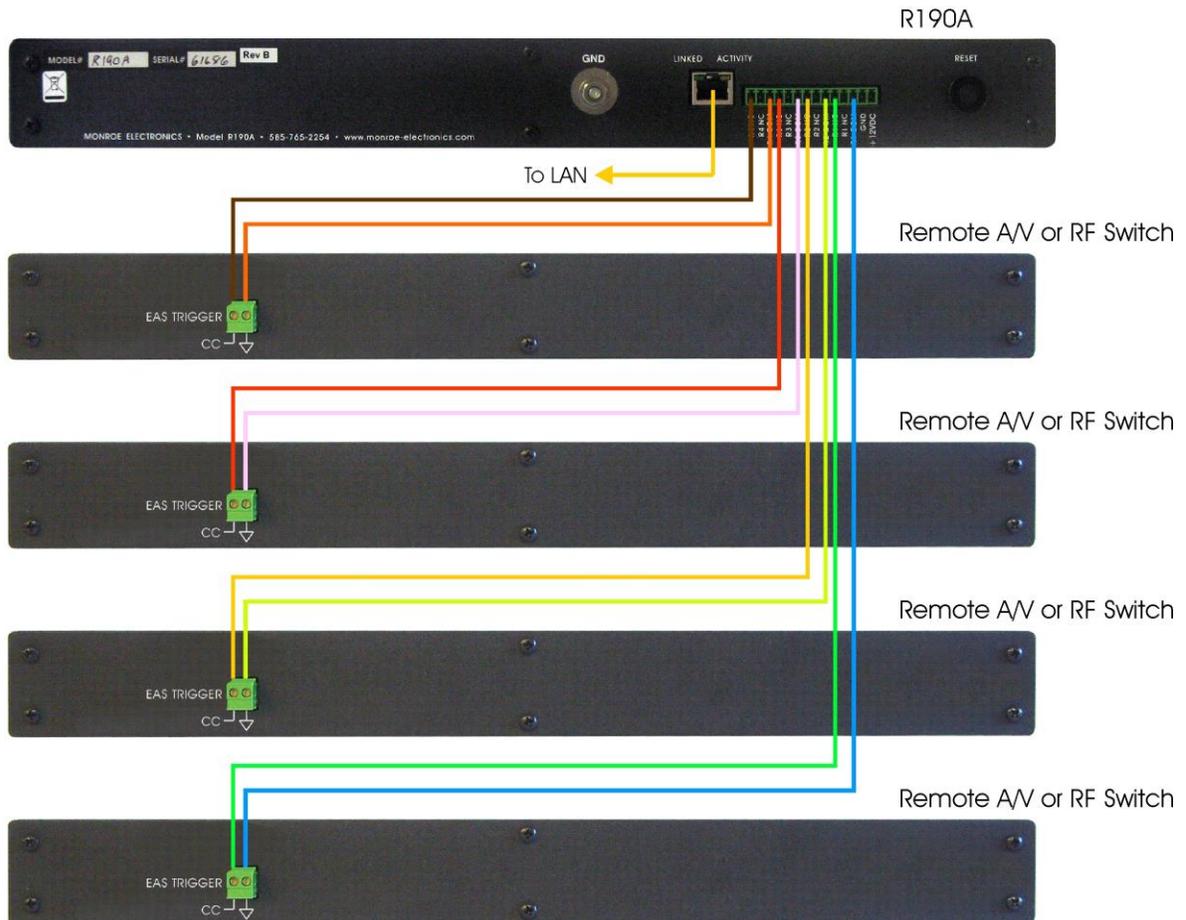
Testing the unit can be done by accessing the unit in the same manner it was programmed. Enter the unit's IP address into your browser and the following display will be shown. Triggering any of the four relays can be done in either a latching mode or Pulse. Clicking on the button, On, Off, or Pulse, on the desired relay will allow you to test that the device being controlled by the R190A is functioning properly. The color of the relay status will change from red to green when the relay is closed.



Section 1 EAS

To configure your R189 One-Net EAS Encoder/Decoder to talk the R190A, refer to section 5.10 of the R189 Manual for programming instructions.

Typical R190A Wiring Diagram



SECTION 2 REMOTE CONTROL

Section 2 Remote Control

General Remote Control Overview

In its basic configuration, the R190A is a simple remote control that allows the user to command 4 DPST relays at a remote location. These commands are transported from any computer with a web browser through a network connection to the R190A. Items within the power limits of the relay contacts can be directly connected to the R190A and be easily controlled from any network location. In addition, the R190A can be directly connected to any of the contact closure controlled switches manufactured by Digital Alert Systems so that audio/video, IF or RF type switching can be accomplished.

Set-up and configuration is done by using the built-in web page where IP address, password and relay labels are entered.

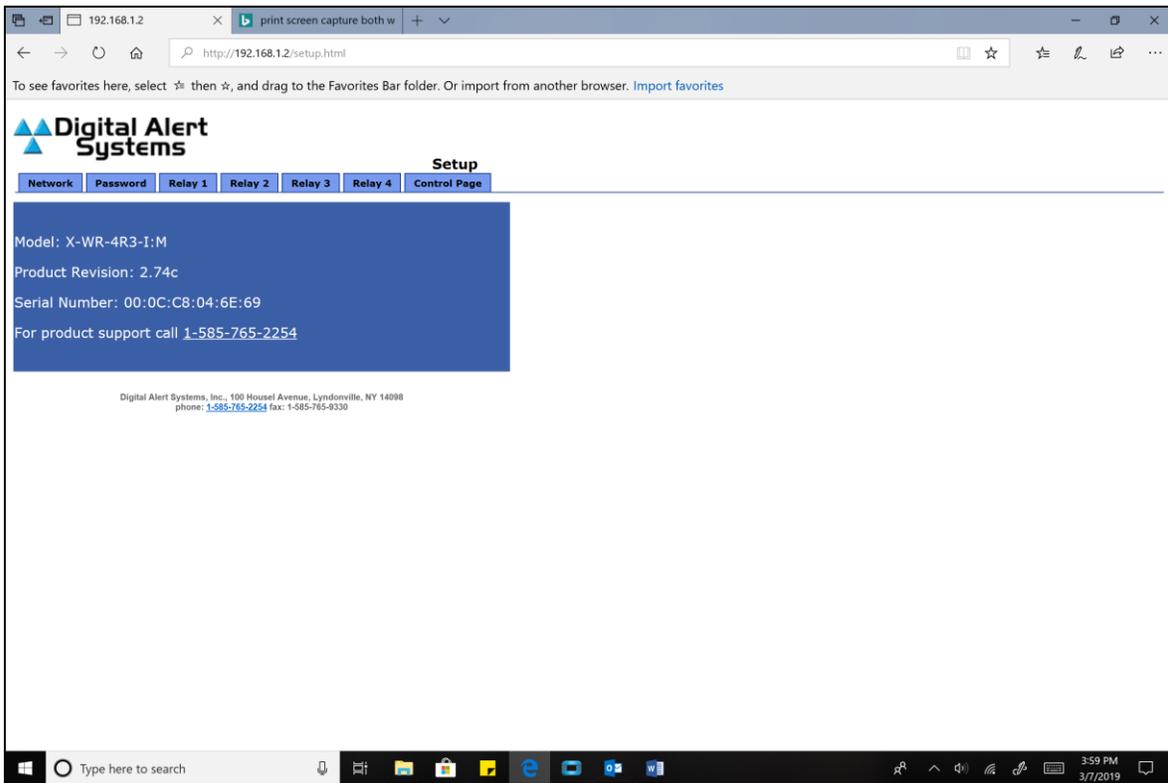
Once configured for the users network, on, off or momentary relay control can be accomplished by clicking a button on the web page.

Section 2 Remote Control

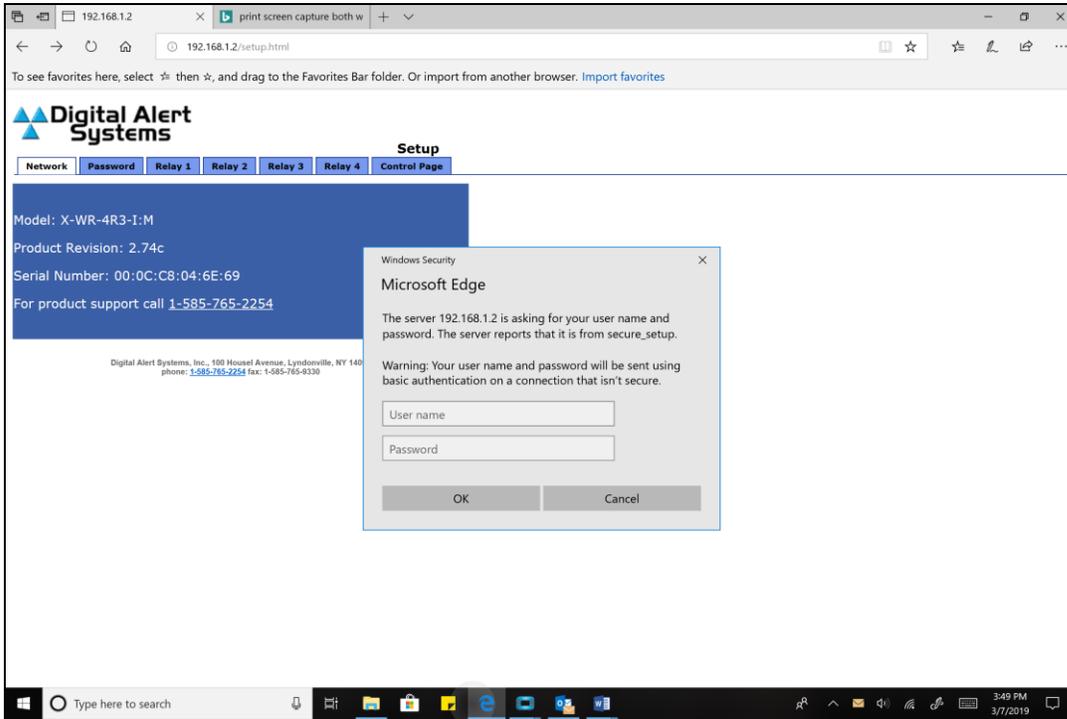
Remote Control Getting Started

Setting the IP address-- Setting the IP address for remote control applications is identical to the procedure used for EAS applications. Follow the steps in the EAS Getting Started section to set the device IP address for your network.

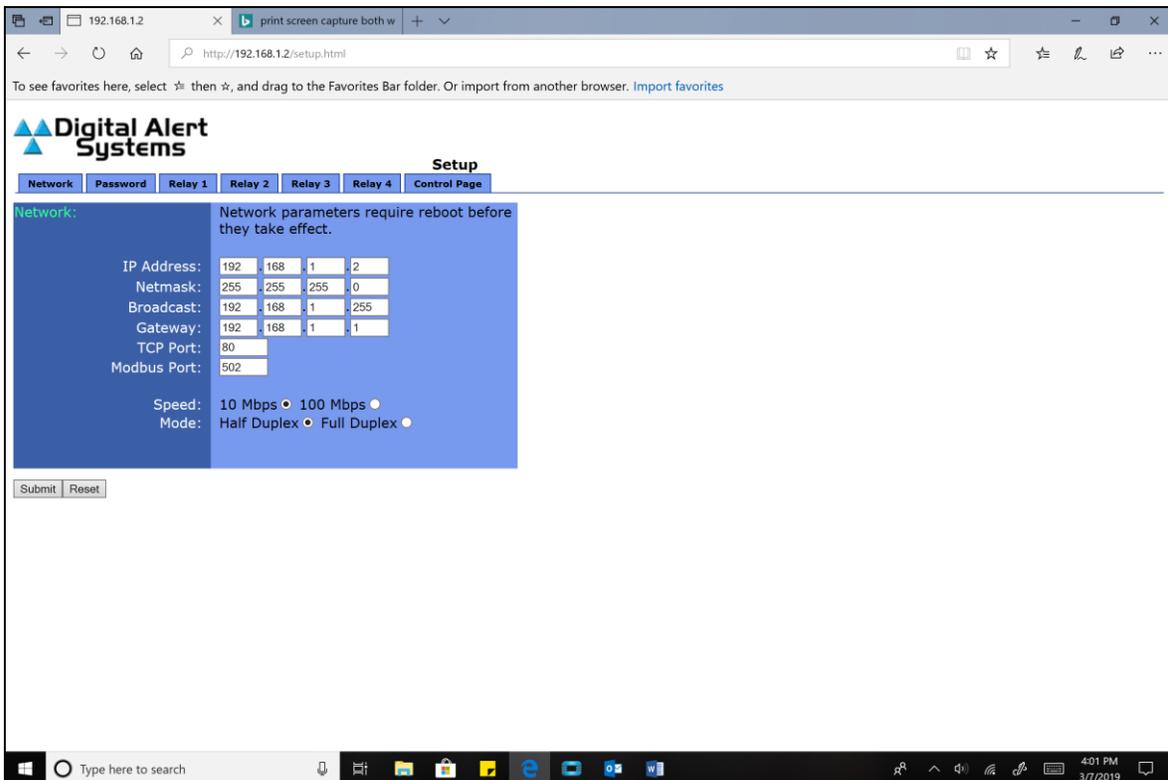
Setup Configuration – The Setup mode of the R190A allows you customize several settings. Some of the settings are the unit’s IP address, Netmask, Gateway, network speed, mode and passwords. There is no user name required to log into the Setup, and the default password is shown in bold between the quotes “**digital**”. The following screenshots show the setup pages.



Section 2 Remote Control



Click NETWORK to change the IP address and other Network settings.



Section 2 Remote Control

Changing the Network settings – Enter the new network settings as desired. When you have reviewed your settings and want to keep them click on “Submit”. These new changes will show up in the Network tab, but will not take effect until the power is removed and reapplied to the unit.

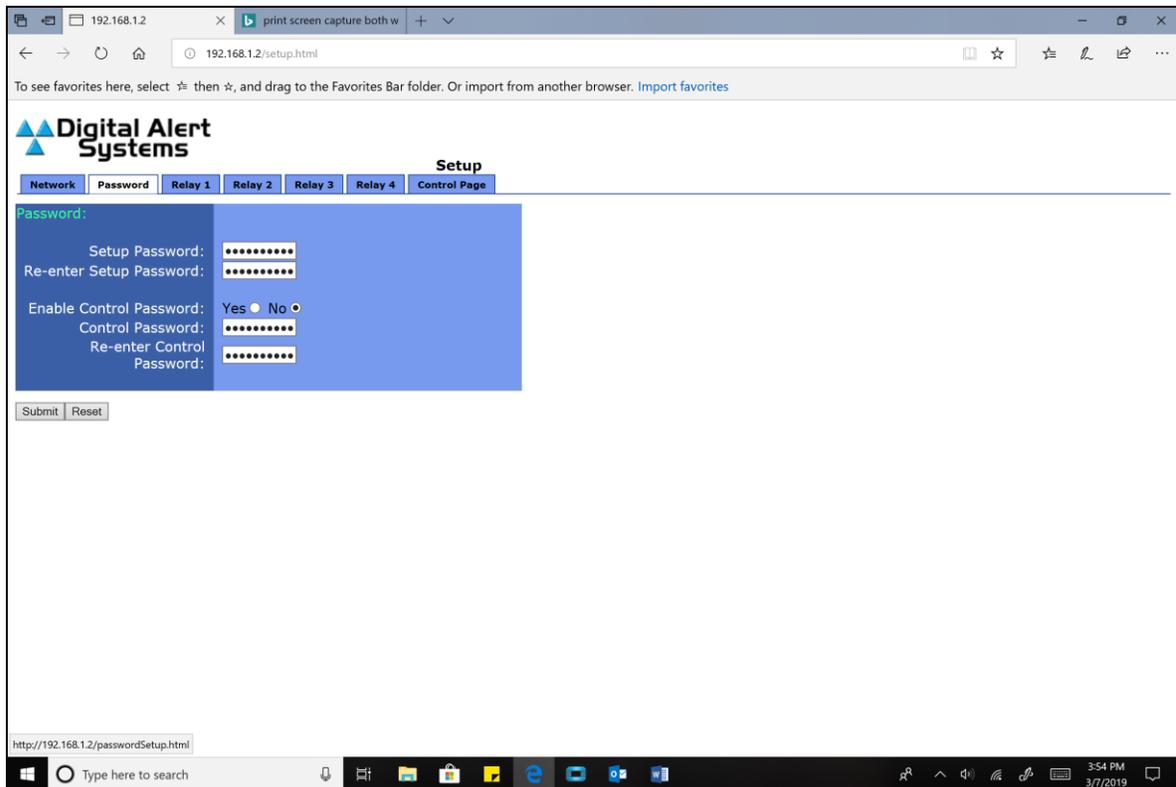
Permanent storage of IP change – To store the new Network settings into memory, remove the power from the unit, wait approximately 10 seconds, and reconnect the power to the unit.

Note: To set the unit back to the default Network settings, remove the power from the unit, press and hold the Reset button on the back of the unit, and reconnecting the power to the unit. After approximately 10 seconds you can release the Reset button and the unit will be set back to the default IP address of 192.168.1.2.

Section 2 Remote Control

Password Settings – The R190A allows you to program a Setup and a Control password. The unit is defaulted with a Setup password of “**digital**”, and the Operation password is disabled. If changes are made to either the Setup or the Operation password, you must click on the “Submit” button to store the change. Passwords may be up to 10 characters in length. If the passwords are forgotten, the R190A can be set back to factory defaults by removing the power from the unit, pressing and holding the Reset button on the back of the unit, and reconnecting the power to the unit. After approximately 10 seconds you can release the Reset button and the unit will be set back to the default password of “**digital**” for the Setup and no password for the Control. **Caution:** Pressing the reset switch will reset ALL user settings back to default. This includes network IP address and associated settings.

Please note: Rev H units and earlier the password is ‘monroe’.
Beginning with Rev I units and later the password is ‘digital’.



The screenshot shows a web browser window displaying the 'Password' configuration page for a Digital Alert Systems device. The browser address bar shows '192.168.1.2/setup.html'. The page features the 'Digital Alert Systems' logo and a navigation menu with tabs for 'Network', 'Password', 'Relay 1', 'Relay 2', 'Relay 3', 'Relay 4', and 'Control Page'. The 'Password' tab is active, showing a blue-themed form with the following fields:

- Setup Password: [masked]
- Re-enter Setup Password: [masked]
- Enable Control Password: Yes No
- Control Password: [masked]
- Re-enter Control Password: [masked]

At the bottom of the form are 'Submit' and 'Reset' buttons. The Windows taskbar at the bottom of the screen shows the time as 3:54 PM on 3/7/2019.

Section 2 Remote Control

Relay Configuration

From the main menu, click the **Relay 1** tab to setup how the relay 1 section of the control page will be displayed.

Main Header - If desired, enter text to be displayed for the main header on the control page.

Auto Refresh Page & Duration – Controls whether or not to continuously refresh the relay control page to update the relay status. The duration sets the time the page is held before it is refreshed. This time can be from 1 to 32 seconds.

Relay Description - If desired, enter text to be displayed in the relay name box on the control page.

Display Relay Status – Click the yes or no radio button to turn on or off updating relay 1 status.

Status ON Colors – Select the desired color to be displayed when the relay is turned on.

Status ON Text – Enter the text to be displayed when the relay is turned on.

Status OFF Color & Text – Enter colors and text to be displayed when the relay is turned off.

ON/OFF Buttons –

Button 1& 2 Labels – Enter the desired text to be displayed on the relay actuator buttons.

Pulse Button – Click the corresponding radio button to turn on or off the display of the pulse button.

Pulse Button Label – Enter the desired text for the pulse button.

Pulse Duration – Enter the time desired for the relay contacts to be momentarily closed. Time can be from 0.1 seconds to 86,400 seconds (1 day).

Section 2 Remote Control

OPERATION

Operating the unit can be done by accessing the unit in the same manner it was programmed. Enter the unit's IP address into your browser and the following display will be shown. Enter any applicable passwords. Triggering any of the four relays can be done in either a latching mode or Pulse. Clicking on the button, On, Off, or Pulse, on the desired relay will allow you to operate the device being controlled by the R190A. The color of the relay status will change from red to green when the relay is closed.

