

Netgenium ALC0808-IP

# Configuration Guide

Firmware Version 1.9



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## PREFACE

This preface describes the purpose, audience, organization, and conventions of this guide

The preface covers these topics:

Purpose, page 1

Audience, page 1

Conventions, page 2

### Purpose

The *Netgenium ALC0808-IP Configuration Guide* provides information about configuring the Netgenium ALC0808-IP lighting controller

### Audience

The *Netgenium ALC0808-IP Manual* is written for network administrators and installers responsible for installing and configuring the Netgenium ALC0808-IP. This guide requires knowledge of the IP protocol.

## Conventions

This document uses the following conventions:

**BOLD ORANGE** font is used to show Navigation steps to configure a feature

**BOLD RED** font is used to indicate a button or hyperlink

**BLUE** font is used to indicate a label on the web page

# CHAPTER 1

## HARDWARE OVERVIEW

The Netgenium ALC0808-IP Lighting Controller is an IEEE802.3af POE device. It is capable of switching up to 8 mains output ports with a maximum overall load of 20A (16A per port) .

Although the management interface can be powered from POE the unit requires a mains input to supply the switched outputs. The management i

The controller has 1 RJ 45 style socket for connection to the LAN. The LAN interface is a standard 10/100 network connection. The switched mains outputs are connected via quick fit terminals.

### ***Powering the Unit***

The management interface of the ALC0808-IP can be powered from any class 3 capable IEEE 802.3af POE switch via the LAN interface.

The unit requires a mains voltage input to supply the lighting circuits. This voltage is switched via the 8 output ports

The management interface can also be powered from the mains input.

### ***Resetting the Unit***

The ALC0808-IP can be reset by removing power to the unit or pressing the Reset button visible on the front panel or via the software options.

### ***The Restore Factory Default Configuration***

ALC0808-IP configuration can be restored to factory defaults by pressing the Default button; this will cause the System Status LED to flash





Green/Magenta for approximately 30 seconds. If the Reset button is pressed during this time the system will restore the factory default configuration. If the Reset button is not pressed, after 30 seconds the System Status LED will revert to its normal condition.

### **Front Panel Indications**

There are two LED's visible on the front panel of the controller; these provide status indications for the system and network.

The system indications are indicated below:



	<b>Indication</b>	<b>Condition</b>
	Flashing Blue/White	Normal Operation
	Flashing Green/Magenta	Factory Default Condition If the unit is reset in this condition the configuration options will be reset to factory defaults



## Front Panel Control





Output ports can be switched on and off via the engineering interface on the front panel.

To activate the panel press the   buttons together.

The display shows the status of the output ports. Red indicates off, Green indicates on.

To change the status of an output:

Select the port to be changed with the  button.

Turn the port on and off with the  button.

## CHAPTER 2

# CONFIGURATION

This chapter describes how to set up the ALC0808-IP for connectivity to the LAN and configure the attached hardware in its environment.

*Please Note The System IO and Logic are non-operational in this version of software*

### Initial Network Setup

Connect the ALC0808-IP to a POE capable network switch or via a mid span device. Alternatively, if the mains input is connected and the unit is powered from the mains a POE input will not be required.

To logon for the first time, open a web browser and type the IP address of the panel in the address bar. Each unit is pre-configured with a default IP address of *10.100.1.170* when it leaves the factory. The default username and password are as follows:

- Username: netgenium
- Password: netgenium

The home page is shown on the next page. This provides basic information on the controller such as software version serial number etc. Navigation around the menu structure is via the tabs shown at the top of the home page. Each tab redirects the browser to the master page for the configuration section selected. In each section a sub menu is accessible via the links on the left of the page.

HOME
SETUP
SYSTEM IO
LOGIC
MAINTENANCE

ALC0808-IP Mains-PoE Power/Lighting Controller




Name: MHLC-MH\_404-405  
 IP Address: 10.20.16.225 / 255.255.240.0  
 MAC Address: 00:15:DD:70:00:24

Netgenium ALC0808-IP Lighting Controller

Software Version:	<span style="color: #00a08a;">1.6.1 (GD Version)</span>							
Serial Number:	<span style="color: #00a08a;">001-7340068</span>							
Build Date:	<span style="color: #00a08a;">11.2009</span>							
Model:	<span style="color: #00a08a;">ALC0808-IP</span>							
Up Time:	<span style="color: #00a08a;">1d 1h 8m 12s</span>							
Digital Output Status:	DG01 OFF	DG02 OFF	DG03 OFF	DG04 OFF	DG05 OFF	DG06 OFF	DG07 OFF	DG08 OFF
Analog Output Status:	ANO1 0%	ANO2 0%	ANO3 0%	ANO4 0%	ANO5 0%	ANO6 0%	ANO7 0%	ANO8 0%
Maintained Status:	EM1 ON	EM2 ON						

To set the controllers IP address:

**Navigate to: Setup**

Configure the options as described below then click the **Apply** button.

**General**

- Device Name:      The name for the device (usually a description of the location)

## Network

- IP Address: IP address of the device
- Network Mask: Subnet Mask of the device
- Default Gateway: Default Gateway for the device
- Netgenium Primary PolicyServer: The IP Address of the primary PolicyServer
- Netgenium Secondary PolicyServer: The IP Address of the secondary PolicyServer
- Registration Mode: Autonomous or registered with PolicyServer
- Registration Status: Current registration status.

## DNS Settings

- Domain Name:
- Primary DNS:
- Secondary DNS:

## Network Port

- Link Configuration: Set the speed and duplex settings of the network interface.

NETWORK

TIME & DATE

USERS

SYSTEM

Network

**General**

Device Name :

**Network Settings**

IP Address :

Network Mask :

Default Gateway :

Netgenium Primary PolicyServer :

Netgenium Secondary PolicyServer :

Registration Mode :  Autonomous  Registered

Registration Status : NOT REGISTERED

**DNS Settings**

Domain Name :

Primary DNS :

Secondary DNS :

**Network Port**

Link Configuration :

If you have changed the IP address of the controller you will lose the connection to it. Open another browser session and reconnect the new IP address.

## Time & Date

### Navigate to: Setup>Time&Date

The screenshot shows the 'Time & Date' configuration page in the Netgenium web interface. On the left, there is a navigation menu with 'SYSTEM' selected. The main content area is titled 'Time & Date' and contains the following sections:

- Current ALK370x-IP Time**: Shows the current system time as 30/11/1999 00:01:45.
- Time Settings**: Includes a dropdown menu for 'Time Zone' set to 'GMT (Dublin, Lisbon, London, Reykjavik)', a checkbox for 'Enable Daylight Saving adjustment' which is unchecked, and three radio buttons for time synchronization: 'Set to Computer Time' (selected), 'Set Manually', and 'Use NTP'.
- Form Fields**: For 'Set Manually', there are textboxes for 'Date' (DD/MM/YYYY) and 'Time' (HH:MM). For 'Use NTP', there is a text box for 'Server IP Address'.
- Buttons**: An 'APPLY' button is located at the bottom right of the configuration area.

This page enables you to set the system time and date. The options are:

### Set to Computer Time

This option sets the time and date to that of your computer when the Apply button is clicked.

### Set Manually

Enter the time and date in the textboxes provided and click the **Apply** button.

### Use NTP

With this option enabled the controller will synchronize its time and date with an NTP server every 5 minutes. Enter the IP Address of the NTP server and click the **Apply** button.

If the controller is configured to register with PolicyServer the unit will automatically be synchronised with PolicyServers date and time.

## Users

### Navigate to: Setup>Users

Use this page to manage the user accounts used to administer the unit. The default settings are:

- Username *netgenium*
- Password *netgenium*

To add a new user account, enter the username and password and click the **Update** button.

To remove an account, highlight the name to delete and click the **Delete** button.

## System

### Navigate to: Setup>System

The system password is used to authenticate requests between PolicyServer and the end devices. The default setting is *netgenium*.

## Port Status

The status of each output of the controller can be viewed by navigating to:

**Navigate to: Maintenance >Status**

**Lighting Controller Live Status**

Output Port Status	
Digital Output Status:	DGO1: ON, DGO2: OFF, DGO3: OFF, DGO4: OFF, DGO5: ON, DGO6: OFF, DGO7: OFF, DGO8: OFF
Analog (DSI) Output Status:	ANO1: 0%, ANO2: 0%, ANO3: 0%, ANO4: 0%, ANO5: 100%, ANO6: 0%, ANO7: 0%, ANO8: 0%
Maintained Output Status:	EM1: ON, EM2: ON

Input Port Status	
Digital Input Status:	DGI1: NORMAL, DGI2: NORMAL, DGI3: NORMAL, DGI4: NORMAL, DGI5: NORMAL, DGI6: NORMAL, DGI7: NORMAL, DGI8: NORMAL
Analog Input Status:	ANI1: 50%, ANI2: 0%, ANI3: 0%, ANI4: 0%, ANI5: 0%, ANI6: 0%, ANI7: 0%, ANI8: 0%

Each lighting circuit is represented by a digital output port. The page can be refreshed by clicking the **Refresh** button.

## Diagnostics

Each port, or lighting circuit can be controlled from the diagnostics page of the web interface of the controller.

**Navigate to: Maintenance >Diagnostics**

**Lighting Controller Diagnostics**

**Lighting Controller Diagnostic Keypad**

Enable Controller Keypad:

**Digital Output Port Diagnostics**

Digital Output Port Test:

EM Output Port Test:

**Analog Output Port Diagnostics**

DSI Value:  DSI value (0-100)

Apply to Analog Output Port:

**Alarm Diagnostics**

Alarm 1 Test:

Alarm 2 Test:

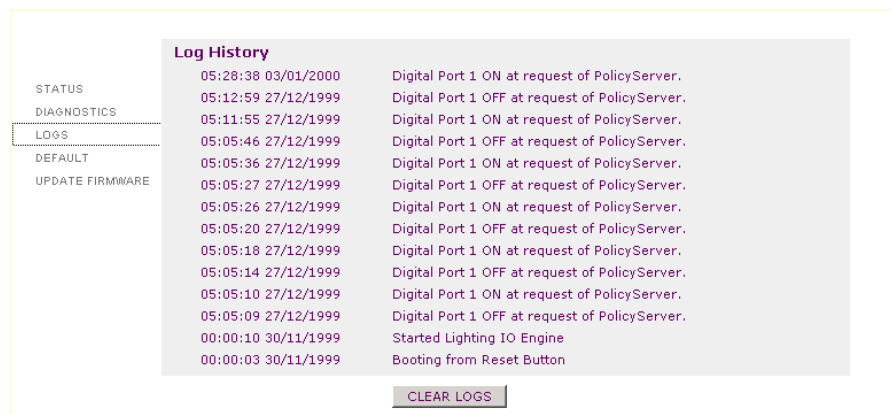
Fire Alarm Test:

Use the buttons **01 02 03 04 05 06 07 08** to turn lighting circuits on or off.

## Logs

A system log maintained for diagnostic purposes. To view the log:

**Navigate to: Maintenance > Logs**



Log History		
STATUS	05:28:38 03/01/2000	Digital Port 1 ON at request of PolicyServer.
DIAGNOSTICS	05:12:59 27/12/1999	Digital Port 1 OFF at request of PolicyServer.
LOGS	05:11:55 27/12/1999	Digital Port 1 ON at request of PolicyServer.
DEFAULT	05:05:46 27/12/1999	Digital Port 1 OFF at request of PolicyServer.
UPDATE FIRMWARE	05:05:36 27/12/1999	Digital Port 1 ON at request of PolicyServer.
	05:05:27 27/12/1999	Digital Port 1 OFF at request of PolicyServer.
	05:05:26 27/12/1999	Digital Port 1 ON at request of PolicyServer.
	05:05:20 27/12/1999	Digital Port 1 OFF at request of PolicyServer.
	05:05:18 27/12/1999	Digital Port 1 ON at request of PolicyServer.
	05:05:14 27/12/1999	Digital Port 1 OFF at request of PolicyServer.
	05:05:10 27/12/1999	Digital Port 1 ON at request of PolicyServer.
	05:05:09 27/12/1999	Digital Port 1 OFF at request of PolicyServer.
	00:00:10 30/11/1999	Started Lighting IO Engine
	00:00:03 30/11/1999	Booting from Reset Button

The logs can be cleared at any time by clicking the **Clear Logs** button.

The log is stored in volatile memory and records the last 50 events. If the controller is rebooted, or power is lost, the logs will be erased.