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Signal Tower Complete Operation Manual Model LA6-POE

PATLITE Corporation

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1. Introduction

Thank you very much for purchasing our PATLITE product.

- Request the installation and wiring be performed by a professional contractor if construction work is involved.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- After reviewing this manual, if there are any questions regarding this product, please contact the nearest PATLITE office listed on the back cover of this manual.

Notice

- The copyrights of this book is owned by the PATLITE Company, Inc. (henceforth referred to as "our company"). Any reproduction, duplication, alteration, or extracting portions of this book, etc., without written permission from our company is forbidden.
- Specifications, the design, and other contents written in this book may be changed for improvements without Prior notice and may result in differences from the actual product purchased.
- This product meets severe quality control and inspection requirements prior to shipment, but if some failure or defect is found, please contact the place of purchase, or your PATLITE Sales Representative (indicated on the last page) to solve the issue.

Please understand that our company does not take any responsibility for damage and other disadvantages this product (software is included) has caused due to the customer using this product outside its designed application, such as for home, office and industrial use, high security applications such as medical or systems related to human life, directly or inderectly, or from claims from any third parties.

Also understand, prior to use, no responsibility is taken at our company for damages or other disadvantages, due to customers use of this product beyond the scope of its general application, or from any claims made from third parties.

When using this product for applications in which equipment of higher reliability than the general application demands, such as a computer system, etc., please use suitable safety design countermeasures against system failure, etc.

Please understand that our Company does not take any responsibility for damage and other disadvantages this product (software is included) has caused due to the customer using this product, or any claims from third parties.

1.1. Safety Precautions

- In order to prevent any damage to the user and other personnel or to assets, note the following:
- The following symbol classifies and explains the level of harm inflicted when caution is disregarded while using the product.

A WARNING	This symbol indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.
	This symbol indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.
	Indicates something to observe before using this product. The disregard to this indication may lead
	to product malfunction or failure.

Meaning of the symbols

Degree	Symbol	Contents
Prohibited	\mathbf{O}	Indicates it is forbidden.
Caution		Indicates to show caution.
Directions		Indicates when a procedure must be performed.
Description	MEMO	Indicates a supplementary explanation.

1.2. For safe application, observe the following:

A WARNING

() To prevent from shock, short-circuits or damage, observe the following:

• Be sure the power is disconnected before replacement (fuse exchange, etc.) or repair.

Use this product in a properly maintained condition. (Replace or repair if the body, LED unit, etc. are damaged.)
 Request the installation and wiring be performed by a professional contractor if construction work is involved. Failure to comply may result in fire, electric shock or falling from high places may occur.

ACAUTION

O not listen to a buzzer at close range. Failure to observe this may lead from irritation to permanent damage to the ears.
 In order to maintain protection of this product against dust and waterproofing performance, be sure to use the head cover, buzzer unit, USB cover and LAN Bracket in the condition that it was originally attached. (<u>TN</u> Direct Mount Type) Do not operate this product with the 'O' ring or waterproof packing removed. Waterproof performance will drop and possibility cause failure. (<u>TN</u> Direct Mount Type)
Sevent and the common wire (COM) or Flashing Common line. Product failure will occur. When removing covers or packing from the equipment, which is attached to this product, be careful not to snag the
product. Failure to comply may result in damage to the product.
\bigotimes Do not drop, or allow this product to fall. Failure to comply may result in damage to the product.
<u> </u>
 To ensure proper safety while using the signal tower, observe the following: Perform periodic pre-maintenance.
 As a precaution against problems occurring, Use this product together with other equipment.
() Be sure to discharge any static electricity from the body before handling static sensitive parts of this product.
(To prevent damage from static electricity, touch hands or other body parts to metals or an earth ground to discharge the body from static charge.)
🕐 Use a soft cloth, etc., dampened with water to wipe the main signal tower unit.
(Do not use cleaners containing chemicals such as thinner, alcohol, gasoline or oil.)
To ensure safety when this product is installed onto equipment, observe the following:
 Do not remove parts beyond those designed to be removed from this product.
Do not modify or disassemble this product.
Use only the specified replacement parts listed in comprehensive manual.
Contrary to Warnings and Cautions indicated in this document, product failure due to mishandling, disassembly, modifications or natural disasters, etc. is not covered by any Warranty.

Moreover, avoid any applications outside those indicated in this document.

1.3. Product Features

This product has a new "Smart Mode" function; in addition to the "Signal Tower Mode", which can directly control the LED and buzzer like a standard signal tower. In the "Smart Mode", various displays can be shown, such as a slow flashing rate, simulating that of a firefly and a display that can be used as a level meter.

In addition to the signal line input control, since it is compatible with the Power over Ethernet (henceforth, PoE), it can be operated through a LAN Cable to acquire signal tower status conditions via the network, and control it in the Signal Tower Mode or Smart Mode. Also, this product can use the mirroring function, in which one signal tower can show the same status as the other, but in a different location.

Since the Signal Tower is the LA6, the dedicated application software, "EDITOR for LA series" can be used to reflect the setting data via the network.

* Visit our company's home page and download the latest application software for free.

1.4. Trademarks

Internet Explorer is a trademark or registered trademark of Microsoft Corporation. Google Chrome is a trademark or registered trademark of Google Inc.

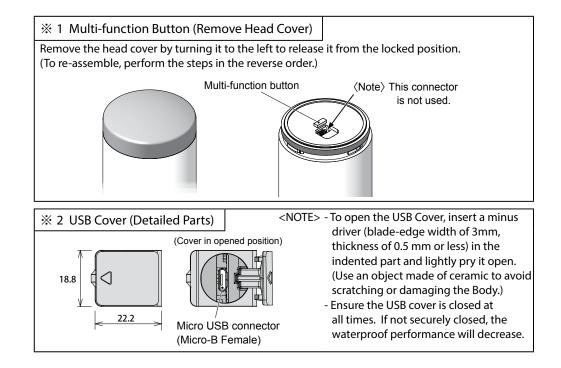
2. Model Number Configuration

2.1. Model Number Configuration

	Model	LED Tiers	Rated Voltage	Mounting Specifications	Body Color	Flashing/ Buzzer	Extended Functionality
Model Number	LA6-	5	D	\downarrow	W	В	-POE
Common to all models Rated voltage: DC24V.							
TN Direct Mount Common to all models Common to all models SN Stationary W Off-white B Flashing/Buzzer							

2.2. **Part Names and Dimensions** <LA6-5DSNWB-POE> <LA6-5DTNWB-POE> ຸ 🖉 🗘 Headcover 16 (Multi-function Button 16 Inside $\rightarrow \approx 1$) LED Unit 428 USB Cover 405 (In Back) %2 70 228 LAN Unit Nameplate 110 (Backside) "Clear" Switch Stand Cover 25 LAN Bracket 8 145 $\phi 60$ Base Plate (Unit: mm)

% Maximum Board thickness: 4 mm



3. Installation

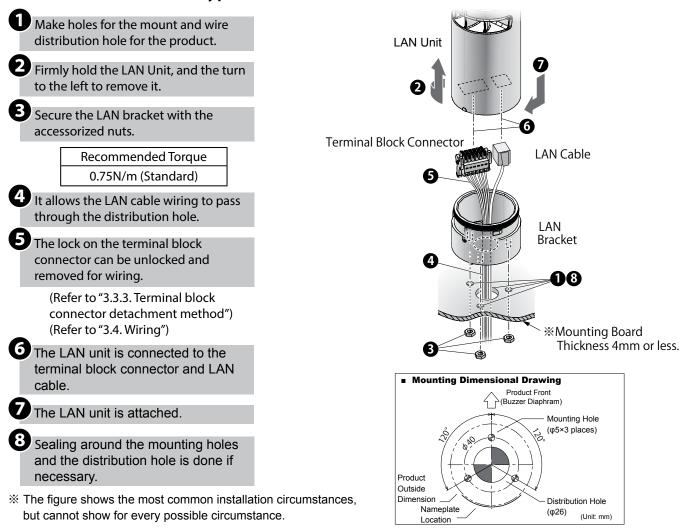
The clamping surface should be sufficient enough to tolerate the weight and surface of the product. Do not use the product in a place where vibrations exceeds the specifications. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.

Install the signal tower in an upright position.

- In cases where the installation placement is unavoidably irregular, and waterproof performance is required, use a sealant to the crevice between the product and the installation surface. (TN)
- If an IP54 rating is required, when clamping each bracket, place sealant to the distribution hole area and the screw thread or nut. (<u>TN</u>)
- O Do not run LAN cable from outside. There is a risk of exposure to lightning strikes or other adverse weather conditions.
- \bigcirc The LAN Unit and Stand Cover cannot be separated. (SN)
- Sefore placing the rubber sheet onto the bottom plate, be sure to removedust, water, oil, etc., on the bottom plate and the installation location. (SN)
- The LAN cable and wiring is not included.

3.1. How to Install

3.1.1. Direct-mount Type

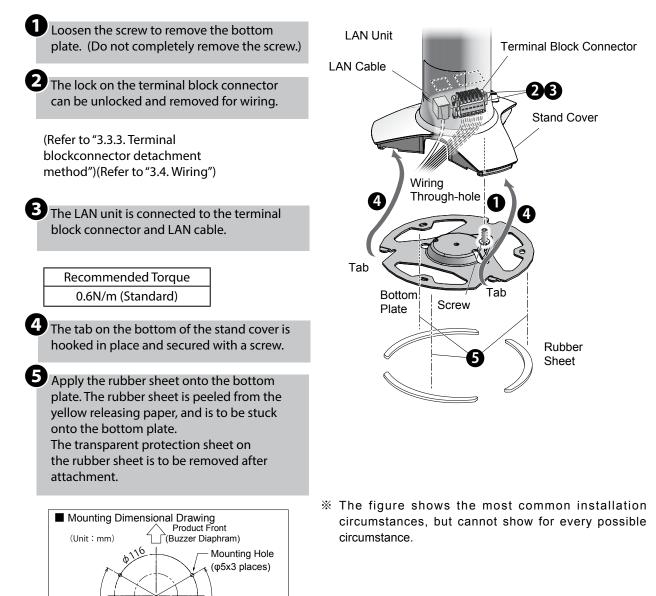


3.1.2. Stationary Type

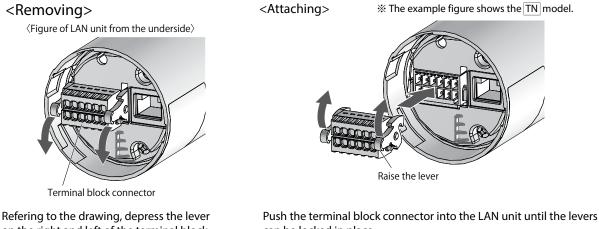
で

Nameplate Location LAN Unit Outer

Dimensions



3.1.3. Terminal block connector (Detachment Method)



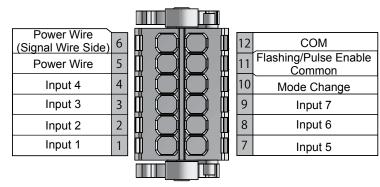
Refering to the drawing, depress the lever on the right and left of the terminal block connector to unlock it, and pull the terminal block connector straight out.

Can be locked in place. (When pushing the terminal block connector in place, the lever will

temporarily move up, before it moves down and locks into place.)

3.2. Wiring

3.2.1. Terminal Block Connector Pin Arrangement

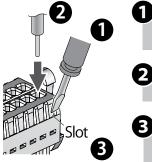


Recommended lead wire specifications

Wire Type	UL1007/UL1430
Wire Gauge (Solid Wire)	0.2-1.5mm ²
Wire Gauge (Frayed Wire)	AWG24-16

Temperature rating should be above 75°C, and the conductor material should be of copper wire.

3.2.2. Wiring the Terminal Block



A minus driver etc. is placed on the slot and pushed into the slot of the terminal block connector. (at a slight angle)

2 The stripped side of the lead wire is inserted in the slot.

The driver is then extracted from the slot. (Check to make sure the lead wire has been locked in place.)

Point

The minus driver blade should be no less than 2.5mm in width and 0.4mm in thickness. Any object that fits the dimensions is also ok. Do not forcibly push the slot more than necessary with the driver. Failure to comply may damage the unit. Strip 6-7mm of wire insulation from the wire before inserting it in the Terminal Block

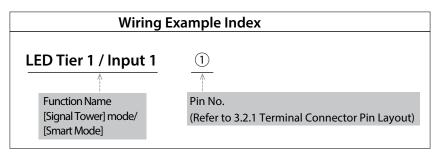
Strip 6-7mm of wire insulation from the wire before inserting it in the Terminal Block. When removing the lead wire, Do not just pull to remove. (Be sure to slide the minus driver etc. into the slot to unlock it.)

3.2.3. Wiring Example

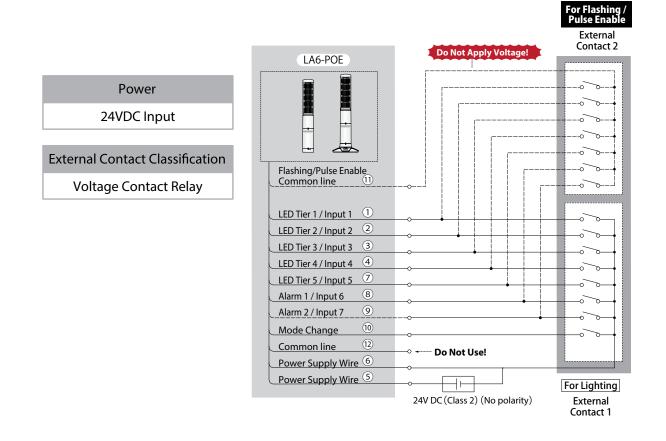
The following is a basic wiring example.

If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative.

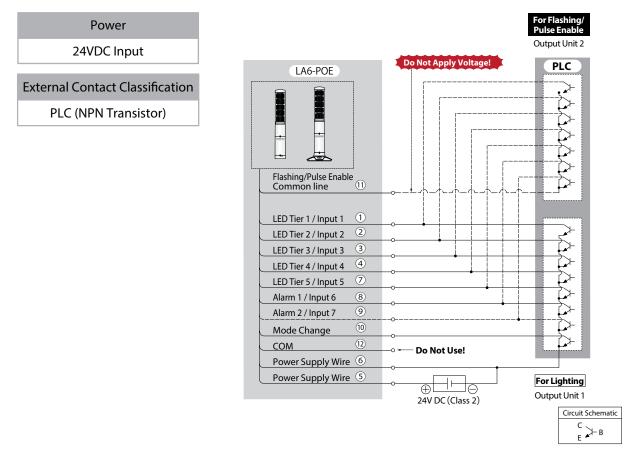
* When lighting and flashing are used together in the Signal Tower mode with a PLC, it is necessary to separate the flashing and non-flashing circuit outputs on the PLC side.



3.2.3.1. Connecting to Contact Relays with DC24V Input

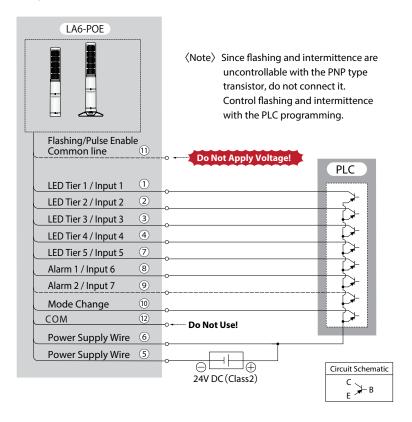


3.2.3.2. Connecting to a PLC (NPN Type Transistor) with DC24V Input

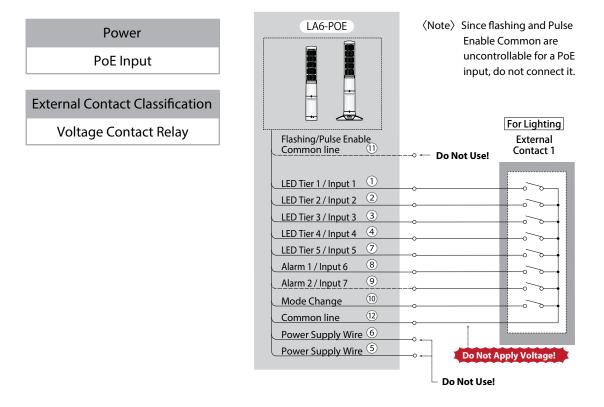


3.2.3.3. Connecting to a PLC (PNP Type Transistor) with DC24V Input

Power			
24VDC Input			
External Contact Classification			
PLC (PNP Transistor)			



3.2.3.4. Connecting to Contact Relay with PoE Input



3.2.4. LAN Cable Connection

The LAN cable should be rated for category 5e or higher. A straight or cross cable can be used.

MEMO	 Be sure to use the IEEE802.3af compliant products for the PoE power feeder systems. Priority is given to the DC24V power source when <u>both</u> the DC24V power source and PoE power feeder systems are connected simultaneously. If both power sources are simultaneously connected, when disconnecting the DC24V
	source, this product may reboot.

3.3. Contact Capacity

Current Capacity	No more than 500 mA (DC24V) No more than 100 mA (PoE)
Withstand Voltage	DC 35V or greater
Leakage Current	0.1 mA or less
ON voltage (V _{sat})	Less than 1V

* Inrush current does not flow into the Mode Change line.

4. How to Operate

4.1. Operating Procedure

4.1.1. Controlling with Commands

- ① Set up the LA6-POE network.
 - Set the IP address for the network. (Refer to "4.3 Network Setup" on page 18)
- ② Set up the LED unit colors and combinations.
 - Use the data setup application to create the LED unit colors and combinations. (Refer to the help section in the data setup application.)
 - Use the Web Setup Screen to set up. (Refer to "4.4.2 WEB Setup" on page 21)
- ③ Load the Setup Data information into the LA6-POE.
 - Use the data setup application to load the data. (Refer to "4.4.1 Loading Setup Data" on page 19)
- ④ Set up the control method.
 - Use a command control system in the Main Unit to set up with. (Refer to "4.5 Main Unit Setup" on page 23)
- (5) Set up the recieving command protocols.
 - When controlled by PNS or PHN Commands: Set up for receiving commands. (Refer to "4.6 Command Configuration" on page 24)
 - When being controlled by Modbus/TCP: Set up for Modbus/TCP commands. (Refer to "4.7 Modbus/TCP Setup" on page 25)
- 6 Set up the contact inputs.
 - Set up the operation sequence for when an input occurs at the contact input. (Refer to "4.8 Contact Input Detection" on page 26)
 * The contact inputs are: clear/mute/trigger/STOP

4.1.2. When Controlling with the Signal Line Inputs

- ① Set up the LA6-POE network.
 - Set the IP address for the network. (Refer to "4.3 Network Setup" on page 18)
- ② Set up the LED unit colors and combinations.
 - Use the data setup application to create the LED unit colors and combinations. (Refer to the help section in the data setup application.)
 - Use the Web Setup Screen to set up. (Refer to "4.4.2 WEB Setup" on page 21)
- ③ Load the Setup Data information into the LA6-POE.
 - Use the data setup application to load the data. (Refer to "4.4.1 Loading Setup Data" on page 19)
- ④ Set up the control method.
 - Use a command control system to set up with the signal lines. (Refer to "4.5 Main Unit Setup" on page 23)
- (5) Set up the recieving command protocols.
 - When acquiring status conditions by PNS or PHN Commands: Set up for receiving commands. (Refer to "4.6 Command Configuration" on page 24)
 - When acquiring status conditions by Modbus/TCP: Set up for Modbus/TCP commands. (Refer to "4.7 Modbus/TCP Setup" on page 25)

4.1.3. When Mirroring

- ① Set up the LA6-POE network.
 - Set the IP address for the network. (Refer to "4.3 Network Setup" on page 18)
- ② Set up the LED unit colors and combinations.
 - Use the data setup application to create the LED unit colors and combinations. (Refer to the help section in the data setup application.)
 - Use the Web Setup Screen to set up. (Refer to "4.4.2 WEB Setup" on page 21)
- ③ Load the Setup Data information into the LA6-POE.
 - Use the data setup application to load the data. (Refer to "4.4.1 Loading Setup Data" on page 19R)
 * Be sure to write the same information for the mirroring point and mirroring origin.
- ④ Mirroring Setup
 - Setup mirroring for the point of origin, establishing the "Master." (Refer to "4.9.1 Setting up the Mirroring Source" on page 28)
 - Setup mirroring for the target point, establishing the "Slave." (Refer to "4.9.2 Setup Mirroring Destination Point" on page 29)

4.2. Web Setup Screen

4.2.1. Login

Once the power supply is switched on and startup is complete (as shown in Fig. 1), enter the IP address of this product into the web browser address section.

The default IP address for this product is "192.168.10.1".

<web browser="" input=""></web>	http://192.168.10.1
Login Screen	
C C C C C C C C C C C C C C C C C C C	- C Lk6 Setup Too ×
	LA6 Setup Tool
Pas	sword Logn

Recommended Browsers: Internet Explorer 11, Google Chrome

When the login screen is displayed, enter "<u>patlite</u>" in the password field, then click the "Login" button. The default password is "<u>patlite</u>", all in lower case letters. Be sure to change the password to prevent any security breaching.

Be sure to change the network setup of the personal computer for the application as follows before communicating via a browser.

The personal computer IP address: 192.168.10.2-254

Subnet Mask: 255.255.255.0

(The default IP address at the time of factory shipment)

After Login

🔿 🚾 http://192.168.10.1/login.cgi 🖉 🗸	C 🖬 LA6 Setup Tool 🗙	ー 日 命 ☆
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1. MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Main	Unit Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Buzzer Sound	
Command Configuration	Control-system Switchover	Command Control V
Modbus/TCP Setup		Set
Operation during contact input		00
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

4.3. Network Setup

The network parameters for this product can be setup through a browser. The default IP address is "192.168.10.1". The items that can be set up through the System Setup Screen is as follows for "Network Setup."

If "Setup Automatically" is selected, this product can accesses a DHCP server to acquire network information.

(a) Martin://192.168.10.1/login.cgi 🖉 🗸	C 🔤 LA6 Setup Tool 🛛 🗙	
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1.0 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Ν	letwork Setup
Main Unit Setup		•
Signal Tower Mode		
Communication Setup		
Network Setup	IP Address Configuration	Setup Manually Setup Automatically
Command Configuration	IP Address	192.168.10.1
Modbus/TCP Setup	Subnet Mask	255.255.255.0
Operation during contact input	Default Gateway	0.0.0.0
Maintenance Service Setup		
Configuration		Set
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

Network Setup

ltem	Contents	Default Value	Input Parameter	Setup Option
IP Address	The method for setting up the IP address to this	Setup Manually	*	×
Configuration Method	product as manual or automatic is selected.	Setup Manually		×
IP Address	Enter the IP address of this product.	192.168.10.1	IP Address Format	×
Subnet Mask	Enter the subnet mask of this product.	255.255.255.0	IP Address Format	×
Default Gateway	Enter the default gateway of this product.	0.0.0.0	IP Address Format	×

* The "Setup Option" indication is explained below to indicate in the diagram whether a value input is omissible (a blank is used) or not.

The "O" indicates where it is omissible.

The "x" indicates where is not omissible, or is selected from an item menu.

ACAUTION

Even when the network Setup is changed to "Setup Automatically", if the DHCP server cannot be able to be accessed, the network settings will not be changed.

A If the DHCP server is not able to be accessed at the time of startup, the network settings start with the default values.

4.4. LED Unit Setup

This product can control the Signal Tower in two modes, Signal Tower mode and smart mode.

Signal Tower Mode

It is a mode to set the tone color of each LED tier and buzzer in advance for this product and control it by the signal line and commands.

Smart Mode

There are three types for the Smart Mode, "Time Trigger Type", "Pulse Trigger Type", and "Single Display Type":

• Time Trigger Type

The pattern transitions can be controlled in accordance to time.

Pulse Trigger Type

The pattern transitions can be controlled in accordance to the trigger input.

- Single Display Type
- The registered pattern is executed.

In each mode, every motion pattern is set in advance for this product and the pattern is executed in accordance to the signal line and command settings.

There are two ways to set up this product, writing and loading data that was set up, or using Web settings.

4.4.1. Loading Setup Data

The LED unit can be Setup from the "EDITOR for LA series". The set data can be written from the "Configuration" screen. * For the Setup method, refer to the help section in the "EDITOR for LA series".

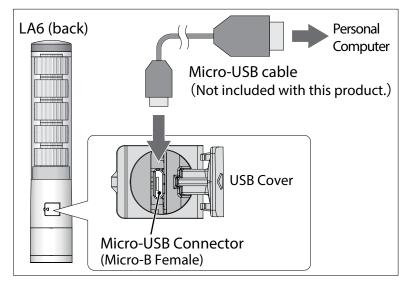
[Data writing method in Web Setting]

In "Write LED Unit Setup Data", the data is selected in the "EDITOR for LA series". The "Write" button is clicked to update the LED unit Settings. It reboots automatically after updating.

← ← Mttp://192.168.10.1/login.cgi	C 🔤 LA6 Setup Tool 🛛 🗙	
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1.00 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup		Configuration ^
Main Unit Setup		
Signal Tower Mode		
Communication Setup		Read LED Unit Setup Data
Network Setup		
Command Configuration	Read	
Modbus/TCP Setup		
Operation during contact input		Write LED Unit Setup Data
Maintenance Service Setup	File Name	Browse
Configuration	Automatic reboot after saving	Write
Firmware Update		
Reinitialization		
Reboot		
Password Setup		Read LAN Unit Setup Data
Log Out		
-	Read	
		Write LAN Unit Setup Data
	File Name	Browse
	Automatic reboot after saving	Write
		~
l		

[Data writing method in "EDITOR for LA series"]

- The product changes to standby status (all signal inputs OFF).
 (Power supply input can be ON or OFF, whichever is easier)
- ② Open the USB cover to the product, use the MicroUSB cable to connect the product to the personal computer.



- ③ Click the "Send" button for the "EDITOR for LA series".
- ④ From the start of data transfer, it takes about 15 seconds before the "Transfer was completed" prompt is displayed.
- (5) Remove the micro-USB cable and close the USB cover completely.

WARNING

When transferring data via USB connection, do not allow the supply voltage from this product to contact with the personal computer, or it's peripheral devices. Failure to comply will result in product damage due to combustion or fire.

As an example, if the positive power terminal is connected to ground and the personal computer FG (housing), which in turn, makes a connection with this product via the USB connection, it should not be grounded because of the reverse polarity.

There are some personal computers which have the USB port connector and negative terminal of the personal computer in contact with the FG (housing).

Personal computers with such USB connections made, should have the FG (housing) of the personal computer and the negative terminal of the USB port of the product connected.

If the case is where the personal computer has the metal chassis as the positive grounding of the supplied power source to the product, the product will have a 24V potential applied to the negative terminal of the USB port of the product, thus will damage product by burning-up.

4.4.2. WEB Setup

On the "Signal Tower Mode" screen, select the LED lighting color, buzzer sound and flashing speed.

PATLITE _®		LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Signa	al Tower Mode
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Signal Tower 1	RED Y
Command Configuration	Signal Tower 2	YELLOW
Modbus/TCP Setup		
Operation during contact input	Signal Tower 3	GREEN ~
Maintenance Service Setup	Signal Tower 4	BLUE
Configuration		
Firmware Update	Signal Tower 5	WHITE ~
Reinitialization	Simultaneous Buzzer Sound Input	9 ~
Reboot	Flash Rate	60rpm 🗸
Password Setup		
Log Out		Set

Item Contents		Default Value	Input Parameter	Setup Option
Signal Tower 1	Solost smong:	RED	-	Х
Signal Tower 2	Select among: BLACK, RED, YELLOW, LEMON,	YELLOW	-	×
Signal Tower 3	GREEN, SKYBLUE, BLUE, PURPLE,	GREEN	-	×
Signal Tower 4	PINK, WHITE	BLUE	-	×
Signal Tower 5		WHITE	-	×
Buzzer	Select among patterns 0-11.	9		×
(At simultaneous buzzer inputs)		9	-	^
Flashing Cycle	Selections are for Lighting:	60/fpm		×
(Flash per Minute = fpm)	30 fpm: 60 fpm: 120 fpm	00/1011	-	×

* Only the Signal Tower mode can be set up in the WEB Setup. To set up the Smart Mode, use the "EDITOR for LA series".

For the Setup method, refer to the help section in the "EDITOR for LA series".

* The "Setup Option" indication is explained below to indicate in the diagram whether a value input is omissible (a blank is used) or not.

The "x" indicates where is not omissible, or is selected from an item menu.

(The tier where BLACK is selected will not light up.
M	IEMO	 When 0 is selected, the buzzer will not sound at the same time.
		 Reboots automatically after the setup changes.

4.4.3. Read Setup Data

The setting data for this product can be read. There are two types of data which can be read, the LED unit setting data and LAN unit setting data.

<<Reading the setting data of the LED unit>>

Click the "Read" button for reading the LED unit setting data and save it on a personal computer. The setting data of the read LED unit can be written to another LA6-POE, and the contents can be checked with the data setting application.

<<Reading the setting of the LAN unit>>

Click the "Read" button of the LAN unit setting data readout and save it on a personal computer. The setting data of the read LAN unit can be written to another LA6-POE.

	MAC Address : 80:39:e5:00:94:93	
Signal Tower Setup	Configuration	
Main Unit Setup		
Signal Tower Mode		
Communication Setup	Read LED Unit Setup Data	
Network Setup		
Command Configuration	Read	
Modbus/TCP Setup		
Operation during contact input	Write LED Unit Setup Data	
Maintenance Service Setup	File Name Browse	
Configuration	Automatic reboot after saving Write	
Firmware Update		
Reinitialization		
Reboot		
Password Setup	Read LAN Unit Setup Data	
Log Out	Read	
	Write LAN Unit Setup Data	
	File Name Browse	
	Automatic reboot after saving Write	

MEMO	When reading the setting data of the LED unit, turn off all signal line inputs and do not perform mirroring.
	perform mirroring.

Sending a command while reading the LED unit setting data will not work.

4.5. Main Unit Setup

The buzzer volume can be set up and controlled.

Attp://192.168.10.1/login.cgi		
PATLITE®	C LA6 Setup Tool X	ি ☆ LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Main	Unit Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Buzzer Sound	
Command Configuration	Control-system Switchover	Command Control V
Modbus/TCP Setup		Set
Operation during contact input		
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

ltem	Contents	Default Value	Input Parameter	Setup Option
Buzzer Sound	Select among 0 (Mute), 1, 2, and 3 (Maximum).	3 (Maximum)	-	×
Control-system	Select among "Command Control" and "Signal	Command		v
Switchover	Line Control".	Control	-	×

* The "Setup Option" indication is explained below to indicate in the diagram whether a value input is omissible (a blank is used) or not.

The "x" indicates where is not omissible, or is selected from an item menu.

1	_	When 0 (Mute) is set, the buzzer won't sound.	
(
		When the command control method is selected, the LED unit can not be controlled by the	
	RATRAD	signal line input.	
	MEMO	• When the signal line control method is selected, control can not be done by commands.	
		Only status acquisition and reboot is possible.	
$\left(\right)$		Reboots automatically after the setup changes.	

4.6. Command Configuration

Set up for receiving PNS and PHN Commands.

[Setup Method]

- ① Select either "TCP" or "UDP" in "Protocol."
- 2 Enter the port to be used for "Port Number."
- ③ Click the "Set" button to apply the setting.

PATLITE _®		LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:93	
Signal Tower Setup	Co	mmand Configuration	
Main Unit Setup			
Signal Tower Mode			
Communication Setup	DetNumber	40000	
Network Setup	Port Number	10000	
Command Configuration	Protocol	● TCP ○ UDP	
Modbus/TCP Setup		Set	
Operation during contact input			
Maintenance Service Setup			
Configuration			
Firmware Update			
Reinitialization			
Reboot			
Password Setup			
Log Out			

ltem	Contents	Default Value	Input Parameter	Setup Option
Protocol	Select between TCP or UDP.	ТСР	-	×
Port Number	Enter the receiving port number.	10000	Half-width numbers from 10000-65535*	X

* The same port number as Modbus/TCP, and 60001-60008, 61001 cannot be set.

* The "Setup Option" indication is explained below to indicate in the diagram whether a value input is omissible (a blank is used) or not.

The "x" indicates where is not omissible, or is selected from an item menu.

((MEMO)	PNS Commands (Refer to "5.1. PNS Command"))
	WEMO	PHN Commands (Refer to "5.2. PHN Command"))

4.7. Modbus/TCP Setup

Set the port number to be used in Modbus/TCP.

[Setup Method]

- ① Enter the port to be used for "Port Number."
- ② Click the "Set" button to apply the setings.

• 🔿 🔤 http://192.168.10.1/login.cgi 🖉 🗸	C LA6 Setup Tool	×
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1
		MAC Address : 80:39:e5:00:94:93
Signal Tower Setup		Modbus/TCP Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Port Number	502
Command Configuration		Set
Modbus/TCP Setup		
Operation during contact input		
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

ltem	Contents	Default Value	Input Parameter	Setup Option
Port Number	Enter the port number.	502	Half-width digit 502, Or 1024-65535*	×

* The same port number as the command receiption function, and 60001-60008, 61001 cannot be set.

* The "Setup Option" indication is explained below to indicate in the diagram whether a value input is omissible (a blank is used) or not.

The "x" indicates where is not omissible, or is selected from an item menu.

MEMO Modbus/TCP Command (Refer to "5.3. Modbus/TCP")

4.8. Contact Input Detection

It detects the status change of the contact input and perform the set-up process. The setup for the contact input detection is done in the Web Setup.

- ① Set the action to be executed when the setting input status 1 to 4 changes.
- 2 Press the "Set" button to apply the settings.

MEMO Only when the command control method is selected, the operation screen is displayed during contact input.

The contents that operates for each contact input can be selected.

Select Operation	Operation Contents	Available Modes
No Operation	Even if contact input is turned ON/OFF, it will not operate.	-
Clear	When the contact input is turned ON, clearing is executed. Nothing will operate when it is OFF.	Signal Tower Mode Smart Mode (Single Display, Time Trigger, Pulse Trigger)
Mute	While the contact input is turned on, Mute is ON. While the contact input is turned off, Mute is OFF.	Smart Mode (Single Display, Time Trigger, Pulse Trigger)
STOP	While the contact input is turned on, STOP is turned ON. While the contact input is turned off, STOP is OFF.	Smart Mode (Time Trigger, Pulse Trigger)
Pulse Trigger	While the contact input is turned on, the Pulse Trigger is turned ON. Nothing will operate when it is OFF.	Smart Mode (Pulse Trigger)

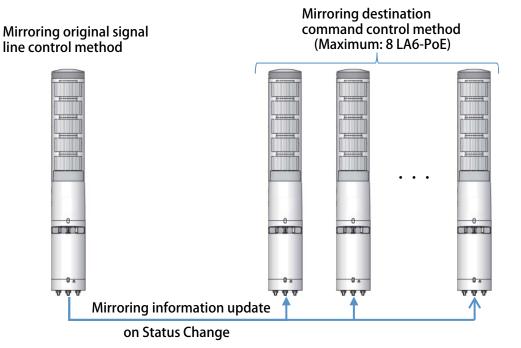
			X
- 🔿 🔤 http://192.168.10.1/login.cgi 🖉 -	C LA6 Setup Tool	× ŵ	☆ 🕸
PATLITE .		LED Unit Version : 1.00, LAN Unit Version MAC Address : 80:39:e5:00:94:93	n : 1.00
Signal Tower Setup	Opera	ation during contact input	
Main Unit Setup			
Signal Tower Mode			
Communication Setup	1 11		
Network Setup	Input 1	No action V	
Command Configuration	Input 2	No action V	
Modbus/TCP Setup	Input 3	No action 🗸	
Operation during contact input	Input 4	No action	
Maintenance Service Setup		Set	
Configuration			
Firmware Update			
Reinitialization			
Reboot			
Password Setup			
Log Out			

(MEMO)

When it is not a usable mode, even if the contacts operate, it won't operate. If it is being controlled by anything other than Smart mode, the Mute and STOP will be OFF.

4.9. Mirroring Setup

This section explains how to configure Mirroring settings.



Up **to nine** LA6-POE Signal Towers can be in the same status by sending the status of the LA6-POE <u>which is being</u> <u>controlled by the Master</u> via the signal line, to another **one of eight** LA6-POE Signal Towers connected within the network. The maximum possible number of mirrored LA6-POE Signal Towers is **eight units**.

Mirroring information is updated when the status changes.

Even if status does not change, the mirroring information is updated every 10 seconds.

4.9.1. Setting up the Mirroring Source

In the "Main Unit Setup" screen, set the control method to the signal line control method.

🕂 🕣 🏧 http://192.168.10.1/login.cgi	ク・C LA6 Setup Tool ×	
PATLITE ®		LED Unit Version : 1.00, LAN Unit Version : 1.00 MAC Address : 80:39:e5:00:94:8e
Signal Tower Setup	Ма	in Unit Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Buzzer Sound	0:Mute V
Command Configuration	Control-system Switchover	Signal Wire Control 🗸
Modbus/TCP Setup		Set
Mirroring Setup		
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

Register the IP address of the mirroring destination in the "Mirroring Setup" screen.

(=) 4 http://192.168.10.1/login.cgi	P → C LA6 Setup Tool ×	
PATLITE.		LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:8e
Signal Tower Setup	Γ	/irroring Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Destination Address 1	
Command Configuration	Destination Address 2	
Modbus/TCP Setup	Destination Address 3	
Mirroring Setup	Destination Address 4	
Maintenance Service Setup	Destination Address 5	
Configuration	Destination Address 6	
Firmware Update	Destination Address 7	
Reinitialization		
Reboot	Destination Address 8	
Password Setup		Set
Log Out		Jei

▲ CAUTION

I Set a different IP address for the destination address.

4.9.2. Setup Mirroring Destination Point

In the "Main Unit Setup" screen, set the control method to the command control method.

🔿 🔤 http://192.168.10.1/login.cgi 🛛 🗸 🗸	C 🕰 LA6 Setup Tool 🛛 🗙	🖬 💷 🗖 公 ①
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Main U	Jnit Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Buzzer Sound	
Command Configuration	Control-system Switchover	Command Control V
Modbus/TCP Setup		Set
Operation during contact input		
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

To mirror, set the same LED unit in the mirroring source and mirroring destination.

"4.4. LED Unit Setup" on page 19

5. Operating Procedure

5.1. PNS Command

By sending PNS commands from a PC etc., you can control and obtain the status of this product. The protocol can be selected from "TCP" or "UDP."

Communication port numbers are "10000-65535."

• The PNS command setup can be executed with the command reception setting. (Refer to "4.6. RSH Command Configuration.")
 • The number of simultaneous connections with a PNS Command and PHN Command is 8 connections.

Identifier List

Identifiers	Command Name	Outline
T(54H)	Smart Mode Control	Execute the Smart Mode.
M(4DH)	Mute	Switches the buzzer ON/OFF when operating in Smart Mode.
1		An input can be entered in the Smart Mode operation.
P(50H)	STOP/Pulse Input	Time Trigger Type Operation: STOP Input ON/OFF
		Pulse Trigger Type Operation: Pulse Trigger Input
S(53H)	Motion Control	Control 1-5 tiers of the LED unit with a set color.
D(44H)	Detailed Motion Control	Control 1-5 tiers of the LED unit by specifying the color.
C(43H)	Clear	LED unit / Turn buzzer off / Stop
B(42H)	Reboot	This product is rebooting.
G(47H)	Status Acquisition	The status of this machine is acquired.

Excecutable command in each control method (is executable)

			•
Identifiers	Command Name	Command Control Method	Signal Line Control Method
T(54H)	Smart Mode Control		×
M(4DH)	Mute		×
P(50H)	STOP/Pulse Input		×
S(53H)	Motion Control		×
D(44H)	Detailed Motion Control		×
C(43H)	Clear		×
B(42H)	Reboot		
G(47H)	Status Acquisition	\bullet	

5.1.1. Smart Mode Control Command

Command Description

The Smart Mode can be executed with the number specified in the data area.

Transmission Data Format

Product Category AB		ldentifier T	Open	Data	i Size	Data Area 1 byte
41H	42H	54H	00H	00H	01H	See Below

Product Category

The product classification of this product is "AB."

Identifiers

"T" is used.

Data Area

Data area byte: 1Byte
01H (Group No. 1)-
1FH (Group No. 31)

Reply Data

Normal Response (1 byte) ACK 06H Abnormal Response (1 byte)

NAK
15H

Command Transmission Example

Smart Mode group 10 is executed.

Product A	Category .B	ldentifier T	Open	Data	i Size	Data Area 1 byte
41H	42H	54H	00H	00H	01H	0AH

5.1.2. Mute Command

Command Description

The ON/OFF of the buzzer is controllable when executing in Smart Mode.

Transmission Data Format

Product Category AB		ldentifier M	Open	Data	a Size	Data Area 1 byte
41H	42H	4DH	00H	00H	01H	See Below

Product Category

The product classification of this product is "AB."

Identifiers

"M" is used.

Data Area

Data area byte: 1Byte	
Mute ON: 01H	
Mute OFF: 00H	

Reply Data

Normal Response (1 byte) ACK 06H Abnormal Response (1 byte) NAK 15H

Command Transmission Example

Turn Mute ON.

	Category \B	ldentifier M	Open	Data	i Size	Data Area 1 byte
41H	42H	4DH	00H	00H	01H	01H

ACAUTION

m MWhen set to ON with the MUTE command, the buzzer will be muted until the MUTE is turned off.

$\left(\right)$	•	It is effective only during the Smart mode operation.
	MEMO •	When a "Clear" command is received or the "Clear" button is pressed, mute is also turned OFF.
	•	If it is being controlled by anything other than Smart mode, the Mute and STOP will be OFF.

5.1.3. STOP/Pulse Input Command

Command Description

When transmitting during the time trigger mode operation, the pattern stop/restart can be controlled. (STOP Input)

When transmitting during the pulse trigger mode operation, the pattern can be changed. (Pulse Trigger Input)

Transmission Data Format

	Category B	ldentifier P	Open	Data	Size	Data Area 1 byte
41H	42H	50H	00H	00H	01H	See Below

Product Category

The product classification of this product is "AB."

Identifiers

"P" is used.

Data Area

Data area byte: 1Byte					
STOP input ON/Pulse Trigger input: 01H					
STOP Input OFF: 00H					

Reply Data

Normal R	esponse (1 byte)
ACK	
06H	

Abnormal Response (1 byte) NAK 15H

Command Transmission Example

A trigger input is executed.

Product A	Category .B	ldentifier P	Open Data Size		Data Area 1 byte	
41H	42H	50H	00H	00H 01H		01H

ACAUTION

A If the STOP input is set to ON with the STOP/Pulse Input Command, the pattern will stop until STOP is turned off.

MEMO .

It is effective only during the Smart mode operation.

When a "Clear" command is received or the "Clear" button is pressed, STOP is also turned OFF. If it is being controlled by anything other than Smart mode, the STOP will be OFF.

5.1.4. Motion Control

Command Description

Each LED unit tier and buzzer (1-3) can be controlled with the pattern specified in the data area. It operates with the color and buzzer set up in the Signal Tower mode.

Transmission Data Format

Product (A	Category .B	ldentifier S	Open	Data	Size	Data Area 6 bytes
41H	42H	53H	00H	00H	06H	See Below

Product Category

The product classification of this product is "AB." Identifiers "S" is used.

Data Area

Data Area	Data Area 6 bytes									
LED Unit Buzzer										
1	1 2 3 4 5									
Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Patterns					
Pattern	Pattern	Pattern	Pattern	Pattern	1,2,3					

LED Unit	Buzzer
00H: Off	00H: Stop
01H: On	01H: Pattern 1
02H: Flashing	02H: Pattern 2
09H: No Change	03H: Buzzer sound at a simultaneous buzzer input
	09H: No Change

Command Transmission Example

1st Tier: lighting, 2nd tier/3rd tier: flashing, 4th tier: Off, 5th tier: no change, buzzer: pattern 1

Product (A	Category B	ldentifier S	Open	Data	Data Size		Data Area				
41H	42H	53H	00H	00H	06H	01H	02H	02H	00H	09H	01H

Reply Data

ACK

06H

Normal Response (1 byte)

Abnormal Response (1 byte)

NAK
15H

5.1.5. Detailed Motion Control

Command Description

In the data area, the color and behavior pattern of each LED unit tier and buzzer pattern (1 to 11) can be controlled when being specified.

Transmission Data Format

	Category \B	ldentifier D	Open	Data	i Size	Data Area 7 bytes
41H	42H	44H	00H	00H	07H	See Below

Product Category

The product classification of this product is "AB."

Identifiers

"D" is used.

Data Area

Data Area 7 bytes										
LED Unit		Flashing Operation	Buzzer							
1	2	3	4	5	6	7				
Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Flashing	Patterns				
Color	Color	Color	Color	Color	Operation	1-11				

LED Unit	Flashing Operation	Buzzer
00H: Off	00H: Flashing OFF	00H: Stop
01H: Red	01H: Flashing ON	01H: Pattern 1
02H: Amber		02H: Pattern 2
03H: Lemon		03H: Pattern 3
04H: Green		04H: Pattern 4
05H: Sky Blue		05H: Pattern 5
06H: Blue		06H: Pattern 6
07H: Purple		07H: Pattern 7
08H: Pink		08H: Pattern 8
09H: White		09H: Pattern 9
	-	0AH: Pattern10
		0BH: Pattern 11

Reply Data

Normal Response (1 byte)

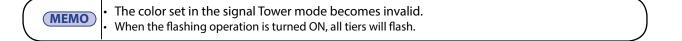
АСК 06Н Abnormal Response (1 byte)

Command Transmission Example

1st Tier : Green, 2nd Tier: blue, 3rd Tier: Off, 4thTier: white, 5th Tier:red, Flashing: OFF, Buzzer: pattern 11

15H

Product (A	Category .B	ldentifier D	Open	Data	Size	Data Area						
41H	42H	44H	00H	00H	07H	04H	06H	00H	09H	01H	00H	OBH



5.1.6. Clear Command

Command Description

Turn off the LED unit and stop the buzzer.

Transmission Data Format

		Identifier	Open	Data	Size	
A	B	C				
41H	42H	43H	00H	00H	00H	

Product Category

The product classification of this product is "AB."

Identifiers

"C" is used.

Data Area

There is no data area.

Reply Data

Normal Response (1 byte)

Abnormal Response (1 byte)

NAK

15H



5.1.7. Reboot Command

Command Description

This product can be rebooted. Transmission Data Format

Product A	Category .B	ldentifier B	Open	Data Size		Data Area 1-16 bytes
41H	42H	42H	00H	00H	01H-10H	See Below

Product Category

The product classification of this product is "AB."

```
Identifiers
```

"B" is used.

Data Size

Enter the number of bytes for the data area.

When the value is "patlite".

00H 07H

Data Area

Enter the password which is set up in the password setting of the Web Setup as an ASCII code.

Reply Data

Normal Response (1 byte)	Abnormal Response (1 byte)
ACK	NAK
06H	15H

Command Response Example

When the password is set to "patlite".

Pr	Product Category AB		Identifier	Onen	Data Size		Data Area							
			В	Open			р	а	t	I	i	t	е	
4	41H	42H	42H	00H	00H	07H	70H	61H	74H	6CH	69H	74H	65H	

5.1.8. Status Acquisition Command

Command Description

The status of the signal line/contact input, the LED unit and buzzer status can be acquired.

Transmission Data Format

	Category .B	ldentifier G	Open	Data	i Size
41H	42H	47H	00H	00H	00H

Product Category

The product classification of this product is "AB."

Identifiers

"B" is used.

Data Area

There is no data area.

Reply Data

Normal Response (15 bytes): When running in Signal Tower Mode

1 byte	2 bytes	3 bytes	4 bytes	5 bytes	6 bytes	7 bytes	8 bytes
Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8
00H: OFF							
01H: ON							

9 bytes	10 bytes	11 bytes	12 bytes	13 bytes	14 bytes	15 bytes				
Mode	LED unit/bu	LED unit/buzzer Status								
	1st Tier	2nd Tier	3rd Tier	4th Tier	5th Tier	Buzzer				
00H	00H: Off	°	•			00H: Stop				
(Signal Tower mode)	01H: On					01H: Buzzer Pattern 1				
	02H: Flashir	ng				02H: Buzzer Pattern 2				
						03H: Buzzer Pattern 3/				
						buzzer sounds when the buzzer				
						inputs are simultaneously entered				
						(Cont)				
						0AH: Buzzer pattern 10				
						0BH: Buzzer pattern 11				

Normal Response (15 bytes): When running in Smart mode

1 byte	2 bytes	3 bytes	4 bytes	5 bytes	6 bytes	7 bytes	8 bytes
Signal lin	e/contact s	status					
Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8
00H: OFF							
01H: ON							

9 bytes	10 bytes	11 bytes	12 bytes	13 bytes	14 bytes	15 bytes
Mode	Smart Mode Statu	s				
	Group Number	Mute	STOP Input	Pattern Number	Open	Open
01H	01H: Group 1	00H:	00H:	01H: Group 1	00H	00H
(Smart Mode)	02H: Group 2	MuteOFF	STOP OFF	02H: Group 2		
(omarcinoac)	(Cont)	01H: Mute ON	01H:	(Cont)		
	1EH: Group 30		STOP ON	3EH: Group 62		
	1FH: Group 31			3FH: Group 63		

Reply Data

Abnormal Response (1 byte)

NAK 15H

Command Response Example

Conditions are; Inputs 1, 3, 5, and 8 are ON, smart mode group number: 5, mute input: ON, STOP input: OFF, pattern number: 15.

1 byte	2 byte	3 byte	4 byte	5 byte	6 byte	7 byte	8 byte	9 byte	10 byte	11 byte	12 byte	13 byte	14 byte
Signal line/Contact Status								Smart Mode Status					
Input	Input	Input	Input	Input	Input	Input	Input	Group	Mute	STOP	Pattern	Open	Open
1	2	3	4	5	6	7	8	Number	Mule	Input	Number	open	open
01H	00H	01H	00H	00H	01H	00H	01H	05H	01H	00H	0FH	00H	00H

	• When in the signal light mode operation (input 8 is OFF), the signal line/contact and LED unit/buzzer
	returns to its status.
NAT NAC	In smart mode operation (input 8 is ON), it returns to the smart mode status.
MEMO	 Flashing status cannot be acquired while controlling the signal line.
	• 03H (Buzzer Pattern 3) can be acquired when the buzzer sounds simultaneously at a buzzer input.
	Up to 11 buzzer patterns can acquired during detailed motion control.

5.2. PHN Command

By sending a PHN command from a personal computer, it is possible to turn on and flash the LED unit tiers 1 to 3, and control buzzer patterns 1 and 2. The protocol can be selected from "TCP" or "UDP." Communication port numbers are "10000-65535."

MEMO	 The PHN Command Setup can be executed with the command reception setting. (Refer to "4.6. RSH Command Configuration.") The number of simultaneous connections with a PNS Command and PHN Command is 8 connections.
------	---

Write Command

Data can be transmitted in the following formats to control the LED unit tiers 1-3 (from the top) and buzzer (patterns 1 and 2).

	"W" (57H) 8 bits						Operation Data 8 bits	
0	1	0	1	0	1	1	1	Refer to Operation Data Contents

Details of operation data

	Operation Data 8 bits							
LED unit Flashing Buzzer Pattern					LEI	OUnit Light	ting	
	3rd Tier 2nd Tier 1st Tier		パターン 2	パターン 1	3rd Tier	2nd Tier	1st Tier	

Reply Data

Normal Response (1 byte)					
А	С	К			
41H	43H	4BH			

Abnorm	Abnormal Response (1 byte)					
N	A	K				
4EH	41H	4BH				

Command Transmission Example

1st Tier: Lighting, fllashing, 2nd Tier: flashing, 3rd Tier: OFF, Buzzer: pattern 2

	W (57H)							Оре		1 1272 (5	51H)				
0	1	0	1	0	1	1	1	0	1	0	1	0	0	0	1

<u>^</u> (CAU	τιο	Ν
------------	-----	-----	---

f The status of the 4th and 5th LED tiers cannot be controlled.

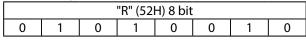
The smart mode cannot be executed.

(MEMO)	ľ
	•

Priority is given to the lighting input over the flashing input when simultaneous signals are applied. Priority is given to buzzer pattern 1 over buzzer pattern 2 when simultaneous signals are applied.

Read Command

Data can be transmitted in the following format to request the current operating status for the LED unit tiers 1-3 (from the top) and buzzer.



Reply Data

P (52H)					Operation Data 8 bit										
R (52H)				LED unit Flashing			Buzzer Pattern		LED Unit Lighting		nting				
0	1	0	1	0	0	1	0	3 Tiers	2 Tiers	1 Tier	Pattern 2	Pattern 1	3 Tiers	2 Tiers	1 Tier

Data Acquisition Response Example

1st Tier: lighting, 2nd Tier: OFF, 3rd Tier: flashing, Buzzer: pattern 1

	R (52H)							Ope	eration		39H)		
0	0 1 0 1 0 0 1 0				1	0	0	0	1	0	0	1	

ACAUTION

 $\underline{\wedge}$ The status of the 4th and 5th LED tiers cannot be acquired.

The smart mode status cannot be acquired.

The Signal line/contact input status cannot be acquired.

ABuzzer patterns 3-11 cannot be acquired. The buzzer pattern data contains zeros.

Excecutable command in each control method (• is executable)

Command Name	Command Control Method	Signal Line Control Method
Write Command (W)	\bullet	×
Read Command (R)		

MEMO Flashing status cannot be acquired while controlling the signal line. The status (Lighting ON or OFF) can be acquired at that time.

5.3. Modbus/TCP

This product can be controlled and obtain its status by transmitting a command from the master that is corresponding to Modbus/TCP protocol.

The communication port numbers are "502, 1024-65535."

MEMO

•

The setup of the Modbus/TCP can be done by the Modbus/TCP settings. (Refer to "4.7. Modbus/TCP Setup")

• The number of simultaneous connections in Modbus/TCP is eight.

Modbus/TCP Data Structure

	Transaction Identifier	Protocol Identifier	Field Length	Unit Identifier	Function Code	Data
	2 bytes	2 bytes	2 bytes	1 byte	1 byte	n bytes
 Transaction Identifier Protocol Identifier Field Length Unit Identifier O00-FFFH The number of bytes following the Unit Identifier. O0-FFH Function Code The code which identifies the function defined in Modbu 						s.
• Data : The data string defined for each function code.						

5.3.1. Function Code

The list of function codes supported by this product.

Code (Hex)	Function Name	Functional Description					
02H	Read Input Status	The contact input status is read.					
03H	Read Holding Registers	The present status of the Signal Tower and buzzer are read.					
06H	Write Single Register	1 byte of the data address in the Register is changed, and the Signal					
ООН	while single register	Tower and buzzer are controlled.					
08H	Diagnostics	Reads the energized state of the Signal Tower control board.					
10H	Write Multiple Pegisters	Two or more bytes of the data address in the Register is changed, and the					
	write multiple registers	Two or more bytes of the data address in the Register is changed, and the Signal Tower and buzzer are controlled.					

5.3.2. Input Address

The input address list supported by this product.

Input Address	Control Allocation	Condition
1 (01H)	Contact Input 1	0: OFF 1: ON
2 (02H)	Contact Input 2	0: OFF 1: ON
3 (03H)	Contact Input 3	0: OFF 1: ON
4 (04H)	Contact Input 4	0: OFF 1: ON
5 (05H)	Contact Input 5	0: OFF 1: ON
6 (06H)	Contact Input 6	0: OFF 1: ON
7 (07H)	Contact Input 7	0: OFF 1: ON
8 (08H)	Contact Input 8	0: OFF 1: ON

5.3.3. Register Address

		Data	Cara litta a
Register Address	Control Allocation	Data	Condition
1 (01H)	1st LED Unit Tier	MSN	00H: doesn't control, 01H: controls
1 (0111)		LSN	00H: OFF, 01H : ON, 02H: flashing, 09H: No Change
2 (02H)	2nd LED Unit Tier	MSN	00H: doesn't control, 01H: controls
2 (021)		LSN	00H: OFF, 01H : ON, 02H: flashing, 09H: No Change
3 (03H)	3rd LED Unit Tier	MSN	00H: doesn't control, 01H: controls
5 (USH)	STULED UNIT HEI	LSN	00H: OFF, 01H : ON, 02H: flashing, 09H: No Change
4 (04H)	4th LED Unit Tier	MSN	00H: doesn't control, 01H: controls
4 (04⊓)	4th LED Onit her	LSN	00H: OFF, 01H : ON, 02H: flashing, 09H: No Change
	5th LED Unit Tier	MSN	00H: doesn't control, 01H: controls
5 (05H)		LSN	00H: OFF, 01H : ON, 02H: flashing, 09H: No Change
6 (064)	Buzzer	MSN	00H: doesn't control, 01H: controls
6 (06H)	buzzer	LSN	00H: STOP, 01H-0BH: buzzer patterns 1-11
7 (074)	Smart Mode	MSN	00H: doesn't control, 01H: controls
7 (07H)	Smart Mode	LSN	01H-1FH: Group Numbers 1-31
0 (00LI)	Clear	MSN	00H (Fixed settings)
8 (08H)	Clear	LSN	Clear (00H: No Change, 01H: Execute Clear)
0 (0011)	Mute	MSN	00H (Fixed settings)
9 (09H)	Mule	LSN	Mute (00H:Mute cancel, 01H: Mute execution)
10 (04 4)	STOD	MSN	00H (Fixed settings)
10 (0AH)	STOP	LSN	STOP (00H:STOP cancel, 01H:STOP execution)
11 (ODU)		MSN	00H (Fixed settings)
11 (0BH)	Pulse Trigger Input	LSN	Pulse Trigger (00H: No Change, 01H: pattern change)

The register address list supported by this product.

	When executing smart mode, set register addresses 1-6 to "doesn't control" (00H).
	• Execution priority is in the order of "Clear", "LED Unit", "Smart mode".
(MEMO)	• PNS Commands Up to 11 buzzer patterns can acquired during detailed motion control.
	• When executing single display type, up to 31 (01H-1FH) group numbers in smart mode can be designated.
	• To execute the time trigger type or pulse trigger type, up to 15 (01H - 0FH) smart mode groups
	can be specified when setting up.

5.3.4. Example

Coil/Register Numbers	Input Address	Control Allocation	Example Data Integer	
10001	1 (01H)	Contact Input 1	Input 1 on: 1	
10002	2 (02H)	Contact Input 2	Input 2 on: 1	
10003	10003 3 (03H)		Input 3 on: 1	
10004	4 (04H)	Contact Input 4	Input 4 on: 1	
10005	5 (05H)	Contact Input 5	Input 5 on: 1	
10006	6 (06H)	Contact Input 6	Input 6 on: 1	
10007	10007 7 (07H)		Input 7 on: 1	
10008 8 (08H)		Contact Input 8	Input 8 on: 1	

Coil/Register Numbers	Register Address	Control Allocation	Example Data Integer
40001	1 (01H)	1st LED Unit Tier	Does Control, Steady on: 0101H = 257 Does Control, Flashing: 0102H = 258
40002	2 (02H)	2nd LED Unit Tier	Does Control, Steady on: 0101H = 257 Does Control, Flashing: 0102H = 258
40003	3 (03H)	3rd LED Unit Tier	Does Control, Steady on: 0101H = 257 Does Control, Flashing: 0102H = 258
40004	4 (04H)	4th LED Unit Tier	Does Control, Steady on: 0101H = 257 Does Control, Flashing: 0102H = 258
40005	5 (05H)	5th LED Unit Tier	Does Control, Steady on: 0101H = 257 Does Control, Flashing: 0102H = 258
40006	6 (06H)	Buzzer	Does Control, buzzer pattern 1 on: 0101H = 257 Does Control, buzzer pattern 2 on: 0102H = 258
40007	7 (07H)	Smart Mode	Does Control, Group Number 1: 0101H = 257 Does Control, Group Number 15: 010FH = 271
40008	8 (08H)	Clear	Execute Clear: 0001H = 1
40009	9 (09H)	Mute	Mute cancel: 0000H = 0 Mute execution: 0001H = 1
40010	10 (0AH)	STOP	STOP cancel: 0000H = 0 STOP execution: 0001H = 1
40011	11 (0BH) Pulse Tr		Pattern change: 0001H = 1

5.3.5. Command Transmission Example

<Read Input Status (02H)>

Control Command

Γ.	Transaction	Protocol	Field	Unit	Function	Da	ta	
	Identifier	Identifier	Lenath	Identifier	Code	Start Address	Number of	
	luentiner	luentinei	Length	identinei	Code	Start Address	inputs	
	00H 00H	00H 00H	00H 06H	01H	02H	00H 00H	00H 08H	

Specify -1 as the first input address to obtain the status for the start address. For the number of inputs, specify the number of inputs to get a status from.

Reply Command

In this example, contact input 2 is set to ON and all other contact inputs are OFF.

Transaction	Protocol	Field	Unit	Function	Data	
Identifier	Identifier	Length	Identifier	Code	byte Count	Input 1-8
00H 00H	00H 00H	00H 04H	01H	02H	01H	02H

								-
Input (8 Bits)	8	7	6	5	4	3	2	1
Status (02H)	0	0	0	0	0	0	1	0

<Read Holding Registers (03H)>

Control Command

Transaction	Protocol	Field	Unit	Function	Da	ita
Identifier	Identifier	Length	Identifier	Code	Start Address	Number of inputs
00H 01H	00H 00H	00H 06H	01H	03H	00H 00H	00H 06H

Specify -1 as the first register address to obtain the status for the start address.

For the number of registers, specify the number of registers to obtain the status from.

Reply Command

When the Signal Tower is in the Signal Tower mode, the 1st tier is lighting, the 2nd tier flashing, the 3rd to 5th tier is

off, and buzzer pattern 1 is on.

Transaction	Protocol	Field	Unit	Function		
Identifier	Identifier	Length	Identifier	Code		
00H 01H	00H 00H	00H 0FH	01H	03H		
			Data			
byte Count	Register 1	Register 2	Register 3	Register 4	Register 5	Register 6
Dyte Count	Register i	negister z		negister 4	Incgister 5	negistero

<Write Single Register (06H)>

Control Command

The Signal Tower is switched to group number 15 of the smart mode.

Transaction	Protocol	Field	Unit	Function	Da	ata
Identifier	Identifier	Length	Identifier	Code	Address	Register 7
00H 02H	00H 00H	00H 06H	FFH	06H	00H 06H	01H 0FH

For the address, specify -1 of the register address to control.

In the register, specify the desired status to control.

Reply Command

Transaction	Protocol	Field Length Un	Unit Idontifior	Function Code	Data		
Identifier	Identifier		Unit identifier		Address	Register 7	
00H 02H	00H 00H	00H 06H	FFH	06H	00H 06H	01H 0FH	

<Diagnostics (08H)>

Control Command

Transaction	Protocol				Data		
Identifier	Identifier	Field Length	Unit Identifier	Function Code	Diagnostic Sub-code	Data	
00H 03H	00H 00H	00H 06H	00H	08H	00H 00H	00H 00H	

Diagnostic Sub-code : 00H 00H Fixed Data

: 00H 00H Fixed

Reply Command

When the LA6-POE control board inside the Signal Tower can be turned on.

Transaction	Protocol				Data	
Identifier	Identifier	Field Length	Unit Identifier	Function Code	Diagnostic Sub-code	Data
00H 03H	00H 00H	00H 06H	00H	08H	00H 00H	00H 01H

Response data when de-energized :00H 00H Response data when energized :00H 01H

<Write Multiple Registers (10H)>

Control Command

Where the 1st Signal Tower tier is on, the 2nd tier is flashing, the 3rd tier has no change, the 4th and 5th tiers are off, and buzzer pattern 2 is sounding.

	TransactionProtocolIdentifierIdentifier		d Length	Unit Identifier	Function (Code					
00H 04H	00H (00H 00	DH13H	FFH	10H						
	Data										
Start	Register	byte Count	Register 1	Register 2	Register 3	Register 4	Register 5	Register 6			
Address	No.	byte count	negister i	negister z	negister 5	Register 4	Register 5	Register o			
00H 00H	00H 06H	0CH	01H 01H	01H 02H	00H 00H	01H 00H	01H 00H	01H 02H			

For the start address, specify -1 of the first register address to control.

For the number of registers, specify the number of registers to transmit.

For the number of bytes, specify the number of bytes of the register to be transmitted.

Reply Command

Transaction	Protocol	Field Length	Unit Idontifior	Function Code -	Data		
Identifier	Identifier	Field Length	Unit identiner		Start Address	Register No.	
00H 04H	00H 00H	00H 06H	FFH	10H	00H 00H	00H 06H	

<Exception Response>

The list of exceptions which this product answers responses to.

Code Hex	Function Name	Functional Description
01H	illegal Function	It responds to an unmatched function code which is received.
02H	illegal Data Address	It responds when an un-assigned data address is specified.
03H	illegal Data Value	It responds when unassigned data values are specified.

The exception response is set to where 1 is the most significant bit of the received function code (80H is added) when it responds.

Unsupported function code command

Transaction	Drotocol				Data			
Transaction Identifier	Protocol Identifier	Field Length	Unit Identifier	Function Code	Start Address	Number of		
luentiner	luentiner				Start Address	inputs		
00H 00H	00H 00H 00H 00H		01H	09H	00H 00H	00H 08H		

Exception Response

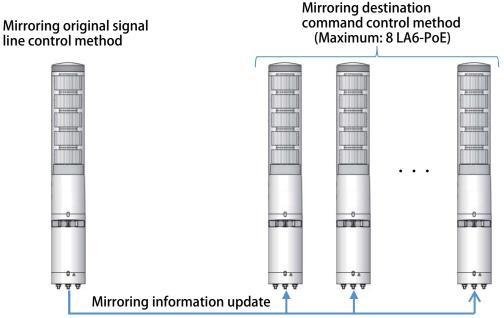
Transaction Identifier	Protocol Identifier	Field Length	Unit Identifier	Function Code	Exception Code
00H 00H	00H 00H	00H 03H	01H	89H	01H

Excecutable code in each control method (is executable)

Function code name	Command Control Method	Signal Line Control Method
Read Input Status	\bullet	\bullet
Read Holding Registers		•
Write Single Register		×
Diagnostics		
Write Multiple Registers	\bullet	×

5.4. Mirroring

Up **to nine** LA6-POE Signal Towers can be in the same status by sending the status of the LA6-POE <u>which is being</u> <u>controlled by the Master</u> via the signal line, to another **one of eight** LA6-POE Signal Towers connected within the network.



on Status Change

When setting the LA6-POE control by a signal line, refer to "4.9.1 Setting up the Mirroring Source" on page 28. When setting the LA6-POE control by command, refer to "4.9.2 Setup Mirroring Destination Point" on page 29.

(The maximum possible number of mirrored LA6-POE Signal Towers is eight units.	
		Even if the mirroring source status does not change, the mirroring information is updated	
	MEMO	every 10 seconds.	
		• Even if a clear is executed at the mirroring destination, if 10 seconds elapse, or the signal line	
		status changes, the mirroring source status will be reflected.	

5.5. Signal Wire Control

This product has two methods of control, by a signal line input or controlling by commands. This item describes the control method by a signal line.

There are two kind of signal line control modes, "Signal Tower Mode" and "Smart Mode". Switching between the "Signal Tower Mode" and "Smart Mode is done by the ON/OFF of the "Mode Change".

- Mode Change Switch ON: Smart mode
- Mode Change Switch OFF: Signal Tower mode

Although a fundamental level hold controls the inputs, only a trigger input in the pulse trigger type for the smart mode turns into a one shot input.

5.5.1. Signal Tower Mode

The Signal Tower Mode controls operation with ON/OFF inputs from the wires currently assigned to each LED and buzzer, like our conventional Signal Towers. When short-circuiting each input to the "Flashing/Pulse Enable Common", The LED will flash, and an intermittent buzzer sound will occur.

For the LED unit setup, refer to "4.4 LED Unit Setup" on page 19.

<Operation Example>

For inputs 1-7, an example of an output of the operation is shown.

		-				
LED Tier 1	Off	Red ON	Off	Off	Red ON	Off
LED Tier 2	Off	Off	Amber On	Off	Off	Off
LED Tier 3	Off	Off	Green ON	Green ON	Green ON	Off
LED Tier 4	Off	Off	Blue On	Blue On	Off	Off
LED Tier 5	Off	Off	Off	White ON	Off	Off
Buzzer	Mute	Sound No.1	Sound No.2	Mute	Sound No.3	Sound No.2
Input 1						
Input 2						
•						•
Input 3						
Input 4						
•						
Input 5						
Input 6						
Input 7						
	LED Tier 2 LED Tier 3 LED Tier 5 Buzzer Input 1 Input 2 Input 3 Input 4 Input 5 Input 6	LED Tier 2 Off LED Tier 3 Off LED Tier 4 Off LED Tier 5 Off Buzzer Mute Input 1 Input 2 Input 3 Input 4 Input 5 Input 6	LED Tier 2OffOffLED Tier 3OffOffLED Tier 4OffOffLED Tier 5OffOffBuzzerMuteSound No.1Input 1	LED Tier 2OffOffAmber OnLED Tier 3OffOffGreen ONLED Tier 4OffOffBlue OnLED Tier 5OffOffOffBuzzerMuteSound No.1Sound No.2Input 1	LED Tier 2OffOffAmber OnOffLED Tier 3OffOffGreen ONGreen ONLED Tier 4OffOffBlue OnBlue OnLED Tier 5OffOffOffWhite ONBuzzerMuteSound No.1Sound No.2MuteInput 1	LED Tier 2OffOffAmber OnOffOffLED Tier 3OffOffGreen ONGreen ONGreen ONLED Tier 4OffOffBlue OnBlue OnOffLED Tier 5OffOffOffOffWhite ONOffBuzzerMuteSound No.1Sound No.2MuteSound No.3Input 1

* Factory settings

5.5.2. Smart Mode

There are three kind of modes, "Time-trigger Type", "Pulse Trigger Type", and "Single-display Type". The main mode has common functions for each type and has the following at this mode.

<Input 6 (Mute input)>

The buzzer sound stops when an "ON" input occurs, and muffles the sound.

<Input 7 (clear input)>

If an input for each type is set to ON, the pattern contents which are controlling the operation will be initialized and it will return to the first pattern. Also, LED's from all the tiers will go out at an "ON" input, and the buzzer is also muffled. For the LED unit setup, refer to "4.4 LED Unit Setup" on page 19.

MEMO The "Flashing/Pulse Enable Common" cannot be used in the smart mode.

5.5.2.1. Time-trigger Type

The pattern transitions can be controlled in accordance to time. Execute up to a maximum of 15 groups, with inputs 1-4.

Group No.	Input 1	Input 2	Input 3	Input 4
1	ON			
2		ON		
3	ON	ON		
4			ON	
5	ON		ON	
6		ON	ON	
7	ON	ON	ON	
8				ON
9	ON			ON
10		ON		ON
11	ON	ON		ON
12			ON	ON
13	ON		ON	ON
14		ON	ON	ON
15	ON	ON	ON	ON

For inputs 1-4, group No. in the combination of ON/OFF can be put into the diagram.

An empty cell indicates the "OFF" condition.

* The following control can be done with the time trigger type.

- Turn on input 5 → Use STOP to halt the progress of pattern changes.
- Turn on input 6 \rightarrow Mute the buzzer.
- Turn on input 7 → The operation and time progress is controlled with a "Clear" (reset)

<Operation Example>

The following are examples of the time trigger type operation. In addition to time progress and pattern changes, the figure also shows the mute input operation.

			[Group	/Patte	rn ino.	.]									
Opera	ting	LED	OFF	1/1	1/2	1/3	1/4	1/5			1/60	1/61	1/62	1/62	OFF
Stat	us	Buzzer	Mute	1/1	1/2	1/5	MU	JTE			1/00	1/01	1/02	1/05	Mute
	r														
	Inp	out 1													
	Inp	out 2													
	Inp	out 3													
Signal Input	Inp	out 4													
	Input 5	5 (STOP)													
	Input	6 (Mute)													
	Input	7 (Clear)													

* The time trigger type operating state is an example for setting data.

In addition to time progress and pattern changes, the figure also shows the STOP input operation, the mute input, and the clear input. A STOP input setup shows an indication of the pattern at a STOP input by flashing.

		[Group	/Pattern	No.]										
Opera	ting LED	OFF	1/1	1/2	Clear	1/1	1/2	5/1	5/2	5/3	Clear	1/1	1/2	OFF
Stat	us Buzze	r Mute	1/1	STOP	Clear	Mute	1/2	5/1	5/2	STOP	Clear		1/2	Mute
	1													
	Input 1													
	Input 2													
	Input 3													
Signal Input	Input 4													
	Input 5 (STC	P)												
-	Input 6 (Mut	e)												
	Input 7 (Clea	ar)				1]		

* The time trigger type operating state is an example for setting data.

5.5.2.2. Pulse Trigger Type

Pattern transition is changed by a pulse trigger (one shot pulse) input. A pulse trigger is entered using input 5. Execute up to a maximum of 15 groups, with inputs 1-4.

<Input-group compatability table>

For inputs 1-4, group No. in the combination of ON/OFF can be put into the diagram.

Group No.	Input 1	Input 2	Input 3	Input 4
1	ON			
2		ON		
3	ON	ON		
4			ON	
5	ON		ON	
6		ON	ON	
7	ON	ON	ON	
8				ON
9	ON			ON
10		ON		ON
11	ON	ON		ON
12			ON	ON
13	ON		ON	ON
14		ON	ON	ON
15	ON	ON	ON	ON
An em	pty cell indi	cates the "C	OFF" condition	on.

* The following control can be done with the pulse trigger type.

Turn on input 5 (one shot pulse) → Pattern changes.

• Turn on input 6 \rightarrow Mute the buzzer.

• Turn on input 7 → The operation and pulse number is controlled with a "Clear" (reset)

<Operation Example>

The following are examples of the pulse trigger type operation. In addition to trigger input and pattern changes, the figure below shows the operation of the mute input.

			[Group	/ralle	TH NO.	.]						
Opera	ating	LED	OFF	1/-	1/1	1/2	1/3	1/60	1/61	1/62	1/62	OFF
Stat	tus	Buzzer	Mute	1/-	1/1	MUTE		 1/00	1/01	1/02	1/05	Mute
	Inp	out 1										
	Inp	out 2										
		out 3										
Signal Input	Inp	out 4										
	Input 5	(Trigger)							Π			
	Input	6 (Mute)										
	Input 7	7 (Clear)										

* The pulse trigger type operating state is an example for setting data.

In addition to trigger input and pattern changes, the figure below shows the operation of the mute input and the clear input.

		[Group/	Pattern	No.]					
Opera Stat		OFF Mute	1/-	1/1	1/2 MUTE	Clear	9/-	9/1	OFF Mute
	Input 1								1
	Input 2								
	Input 3								
Signal Input	Input 4								
	Input 5 (Trigger)								
	Input 6 (Mute)								
	Input 7 (Clear)								

MEMO	The one shot trigger input pulse acquires only the rise-time of the input.

5.5.2.3. Single-display Type

Execute 31 registered pattern selections with inputs 1 to 5.

<Input- Group Compatability Table>

For inputs 1-5, Pattern numbers in combination of ON/OFF can be put into the diagram.

Pattern No.	Input 1	Input 2	Input 3	Input 4	Input 5
1	ON				
2		ON			
3	ON	ON			
4			ON		
5	ON		ON		
6		ON	ON		
7	ON	ON	ON		
8				ON	
9	ON			ON	
10		ON		ON	
11	ON	ON		ON	
12			ON	ON	
13	ON		ON	ON	
14		ON	ON	ON	
15	ON	ON	ON	ON	
16					ON

Pattern No.	Input 1	Input 2	Input 3	Input 4	Input 5
17	ON				ON
18		ON			ON
19	ON	ON			ON
20			ON		ON
21	ON		ON		ON
22		ON	ON		ON
23	ON	ON	ON		ON
24				ON	ON
25	ON			ON	ON
26		ON		ON	ON
27	ON	ON		ON	ON
28			ON	ON	ON
29	ON		ON	ON	ON
30		ON	ON	ON	ON
31	ON	ON	ON	ON	ON
An e	mpty cell	indicates	the "OFF	" conditio	n.

* The following control can be done with the single display type.

• Turn on input 6 \rightarrow Mute the buzzer.

Turn on input 7 → Operation "Clear" (reset)

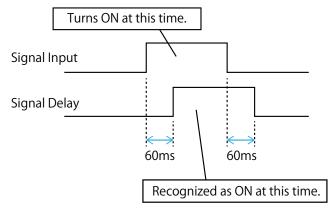
<Operation Example>

The following are examples of the single display type operation.

		[Group	/Pattern No.]							
Operat	ing LED	OFF	OFF Pattern 1		Pattern 2	Pattern 10	Pattern 21	Clear	Pattern 1	OFF
Statu	ıs Buzzer	Mute			Falleniz	Mute		Clear	Tattern	Mute
		1		7						
	Input 1									
	Input 2									
	Input 3							1		
Signal Input	Input 4									
mpac	Input 5							1		
	Input 6 (Mute)									
	Input 7 (Clear)									

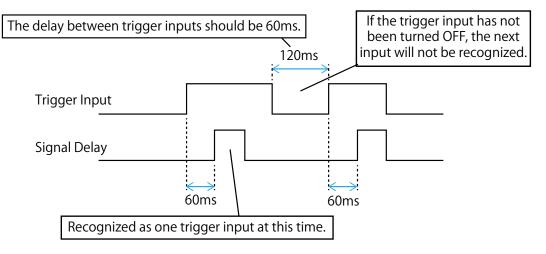
5.5.3. Input Signal Time Chart

If an input signal status is maintained by the data lead time indicated for this product, the input status is decided inside the product.



5.5.4. Trigger Input Signal Time Chart

Unlike other inputs, the trigger input in the "Smart Mode" turns into a one shot input. As the time in detection rises, and is maintained, the next detection is not recognized.



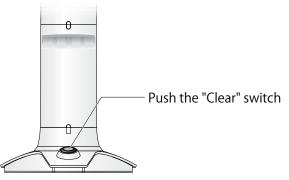
5.6. "Clear" Function

This product can be cleared by using the "Clear" function. The clear function only operates while using the command control method.

- The Clear status indicates the following status:
 - To turn an LED Unit OFF
 - To STOP the Buzzer sound
 - To turn the Mute input OFF
 - To turn the STOP input OFF

The method of executing the clear function is as follows:

Push the "Clear" switch (SN)



• Perform "Clear" with the contact input detection function (Refer to "5.7 Contact Input Detection" on page 55).

ACAUTION

While using the signal line control method, the "Clear" operation will not operate, even if the "Clear" switch is pushed.

5.7. Contact Input Detection

Use the contact inputs 1-4 to perform the operation set up by operating the contacts. The operation can be selected from "No operation", "Clear", "mute", "STOP", and "Trigger". (Refer to "4.8 Contact Input Detection" on page 26)

Select Operation	Operation Contents
No Operation	It doesn't operate.
Clear	 By turning on the contact set up to clear, the "Clear" operation will be executed. (Refer to "5.6 "Clear" Function" on page 54)
Mute	 By turning on the contact set up for mute, the Mute input is turned on. While the mute input is set to ON, the buzzer will not sound. When the contact is turned off, the Mute input will also turn off.
STOP	 By turning on the contact set up for STOP, the STOP input will turn ON. While the STOP input is ON, the operation for the STOP input is executed. When the contact is turned OFF, the STOP input will also turn off.
Pulse Trigger	 By turning on the contact set up for the pulse trigger input, the operation for the pulse trigger is turned on. Whenever the contact is turned on, the pattern changes.

(The contact input detection function can be performed only while using the command
	control method.
MEMO	 The Mute input is effective only while the Smart mode is running.
	• The STOP input is effective only when the time trigger type in Smart mode is running.
	• The trigger input is effective only during pulse trigger mode when Smart mode is running.

<Operation Example>

Execute in smart mode (Time-trigger Type) with identifier "T" in a PNS Command.

Operating	LED	OFF	1/1	1/2	1/3	1/4		1/60	1/61	STOP	1/61	1/67	1/62
Status	Buzzer	Mute	1/1		MUTE			1/00	1/01	3105	1/01	1/02	1/05
Smart N	lode					Smai	t Mode running						
Input 1	Clear												
Input 2	Mute												
Input 3	STOP												

Execute in smart mode (Time-trigger Type) with identifier "T" in a PNS Command.

Status Buzzer Mute 1/1 1/2 MUTE Smart Mode Smart Mode running Clear Condition Input 1 Clear	Operating	LED	Operating	OFF ,	OFF	1/1	1 1/2	1/3	
	Status	Buzzer	Status	Mute	Mute		1 1/2	MUTE	
Input 1 Clear	Smart Mo	Mode	Smart M	Sma	Sm	mart N	t Mode	running	Clear Condition
	Input 1	Clear	Input 1						
Input 2 Mute	Input 2	Mute	Input 2						
Input 3 STOP	Input 3	STOP	Input 3						

Execute in smart mode (pulse trigger type) with identifier "T" in a PNS command.

Operating	LED	OFF	1/-	1/1	1/2	-	1/3	1/4	1/5	1/6
Status	Buzzer	Mute	1/-	1/1	MUTE		1/5	1/4		1/0
Smart N	lode					Smart M	Aode running			
Input 1	Clear									
						-		N		
Input 2	Mute									
Input 3	STOP									

Execute in smart mode (pulse trigger type) with identifier "T" in a PNS command.

Operating	LED	OFF	1/-	1/1	1/2		1/3				
Status	Buzzer	Mute	1/-	1/1	MUTE]	1/5				
Smart N	lode			Smart	Mode running)		Clear Condition			
Input 1	Clear										
Input 2	Mute										
							0				
Input 3	Trigger										

6. Maintenance

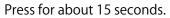
6.1. Initialization

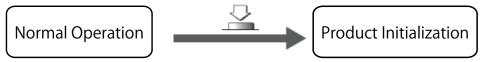
Initialization of this product can be done by the following methods.

- Initialize by operating the Multi-function button.
- "Initialize Network Settings" and "Initialize Setting Items" can be executed.
- Initialize in the Web setting Screen.
 Either "Initialize settings other than network settings" or "Network settings are also re-initialized" can be executed.

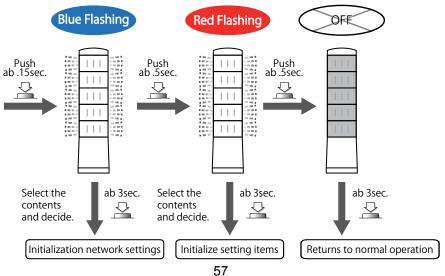
		Setting item	s that can b	e initialized	d (🌑 is initializ	ed)			
Initialization Method	Selected initialization contents	Signal Tower mode setting	Buzzer Sound/ Volume	Flashing Cycle	Smart Mode Setup	Network Setup	Password	Control System	Command Configuration Modbus/TCP Setup Contact Input Operation Setting Mirroring Setup
Multi- function	Isettings		×	×	×	ullet		×	×
Button	Initialize setting items		×	×	×	•	•	•	•
WEB Setting	Initialize settings outside network settings	×	×	×	×	×	•	•	•
Screen	etwork settings also re- initialize	×	×	×	×	•		•	•

[How to reinitialize by operating the Multi-function button]





- When the Multi-function button is pressed and released after about 15 seconds, the LEDs of all the tiers flash in blue and the network setting can be initialized.
- From the flashing blue status, pressing and holding the Multi-function button for about 2 seconds will initialize the network settings.
- When the Multi-function button is pushed briefly (about 0.5 seconds), from the blue flashing status, the LEDs of all the tiers will flash in red and the setting items can be initialized.
- From the red flashing status, by pressing and holding the Multi-function button for about a second, the setting items are initialized.
- When initialization is completed, it automatically restarts.



[How to initialize in the Web Setting Screen]

- ① Log into the Web Setting Screen. (Refer to "4.2.1 Login" on page 17.)
- 2 Select "Initialization" from the menu items.
- ③ To also initialize the network settings, check "Reinitialize Network".
- ④ Click the "Initialization Execution" button.

← 🕀 🗠 http://192.168.10.1/login.cgi 🖉	- C 🔤 LA6 Setup Tool 🗙 🎧
PATLITE _®	LED Unit Version : 1.00, LAN Unit Version : 1.00 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Reinitialization
Main Unit Setup	
Signal Tower Mode	The following items are initialized.
Communication Setup	Main Unit Setup
Network Setup	 Control-system Switchover
Command Configuration	Command Configuration Modbus/TCP Setup
Modbus/TCP Setup	Operation during contact input Password Setup
Operation during contact input	Put in a checkmark for "Network also reinitializes" when the network Setup is also initialized.
Maintenance Service Setup	When the "Reinitialize" button is depressed, the system will automatically reboot.
Configuration	□ Network also reinitializes.
Firmware Update	
Reinitialization	Reinitialize
Reboot	
Password Setup	
Log Out	

ACAUTION

A If the "Initialize network" is checked and initialization is executed, the network setting for this product will be reset to the default values, so network reconfiguration is required.

6.2. Reboot

Rebooting this product can be done by the following methods.

- Reboot in the Web setting Screen.
- Reboot via command control.

[How to reboot in the Web Setting Screen]

- ① Log into the Web Setting Screen. (Refer to "4.2.1 Login" on page 17.)
- ② Select "reboot" from the menu items.
- ③ Click the "reboot" button.

🕂 🕀 http://192.168.10.1/login.cgi 🛛 🖓 👻 🕻 🔤	6 Setup Tool × 🕜 ☆
PATLITE _®	LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Reboot
Main Unit Setup	
Signal Tower Mode	
Communication Setup	Clicking the "Reboot" button will also reboot the unit.
Network Setup	
Command Configuration	Reboot
Modbus/TCP Setup	
Operation during contact input	
Maintenance Service Setup	
Configuration	
Firmware Update	
Reinitialization	
Reboot	
Password Setup	
Log Out	

[How to reboot via command control]

This product can be rebooted by sending a PNS restart command. Refer to "5.1 PNS Command" on page 30 for details.

6.3. Web Login Password Change

The password can be changed in the Web Setting Screen. The password is used for the following applications.

- Log in to the Web Setting Screen.
- Adding to a Reboot command.

(MEMO) Refer to "5.1.7. reboot command" for details on the reboot command.

[The method to change a password]

- 1 In the "Password setting" screen, enter the new password to change in the password field. (Up to 16 single-byte English characters)
- 2 Enter the new password the same way in the re-entry field, to verify the password was entered correctly.
- ③ When the "Set" button is pushed, the entered value will be set as the new password.

A () M http://192.168.10.1/login.cgi	ロー C 🔤 LA6 Setup Tool 🛛 🗙	× □ □ - ↓ ☆ ☆ @
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1.00 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Pa	ssword Setup
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Password	
Command Configuration	Re-enter Password	
Modbus/TCP Setup		
Operation during contact input		Set
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		
Log Out		

6.4. Version Confirmation

The version of this product can be checked by the following methods.

- Operate the Multi-function button to confirm.
- Check in the Web Setting Screen.

This product has an LED unit section and LAN unit section, in which each version is available separately.

How to check the version of LELL unit section	Multi-function button
	Web Setting Screen
How to check the version of the LAN unit section	Web Setting Screen

[How to check in the Web Setting Screen]

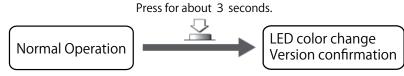
Log into the Web Setting Screen for this product.

MEMO For details on how to log in to the Web setting screen, refer to "4.2.1. Login".

On the upper part of the screen, the LED unit version and LAN unit version are displayed. The MAC Address of this product is displayed under the version.

🔿 🚭 http://192.168.10.1/login.cgi 🛛 🗸 🗸	C 🖬 LA6 Setup Tool 🛛 🗙	LED unit version LAN unit version
PATLITE .		LED Unit Version : 1.00, LAN Unit Version : 1.0 MAC Address : 80:39:e5:00:94:93
Signal Tower Setup	Main U	
Main Unit Setup		
Signal Tower Mode		
Communication Setup		
Network Setup	Buzzer Sound	
Command Configuration	Control-system Switchover	Command Control V
Modbus/TCP Setup		Set
Operation during contact input		
Maintenance Service Setup		
Configuration		
Firmware Update		
Reinitialization		
Reboot		
Password Setup		
Log Out		

[How to check the LED unit section version with the Multi-function button]

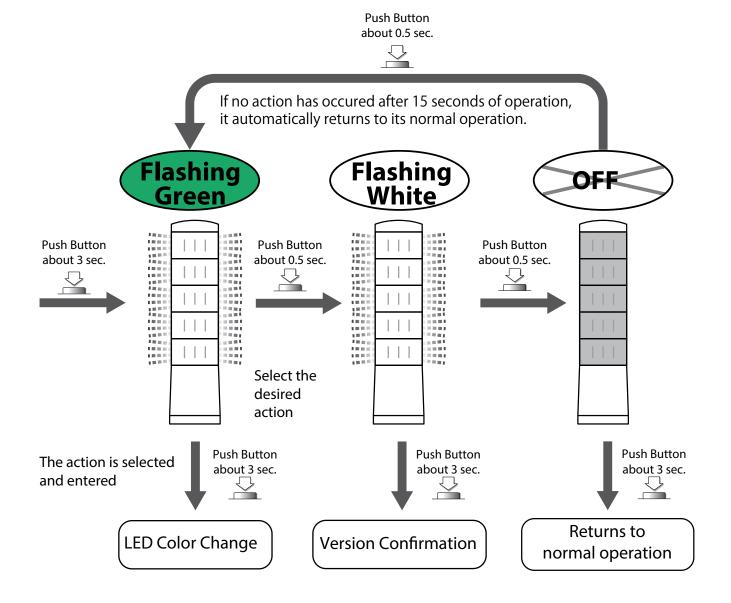


When the Multi-function button is pressed for about 3 seconds and released, the LEDs on all the tiers flicker in green and the LED color change and version can be checked.

As shown in the figure below, each time the Multi-function button is pressed briefly (about 0.5 seconds), 3 types of LED color changes, version check, and return to normal status can be selected.

When the Multi-function button is pushed briefly (about 0.5 seconds) from the green flashing status, all the LED tiers will flash in white.

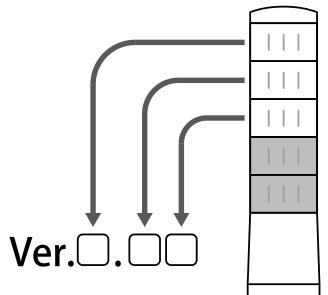
From the flashing white status, if the Multi-function button is pressed and held for about 3 seconds, the version confirmation status is activated.



To verify the firmware version, three LED tiers will light up in accordance to the current firmware version, indicated from top to bottom. Refer to the following table for the meaning of each LED color.

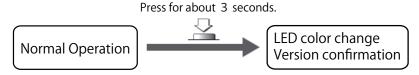
LED Color	Corresponding Number
OFF	0
Red	1
Amber	2
Green	3
Blue	4
White	5
Purple	6
Pink	7
Sky Blue	8
Lemon	9

The version is expressed in the order from the LED top to bottom, as shown in the figure below.



6.5. LED Color Change

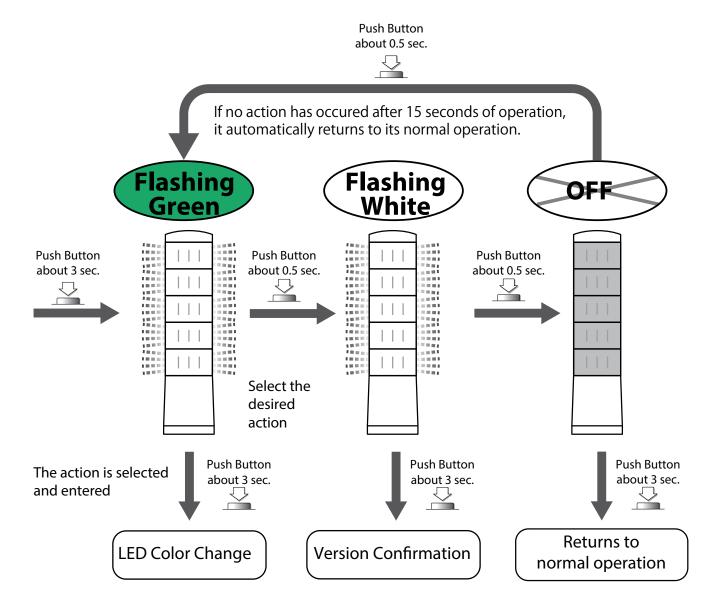
The LED color can be changed from that of the default color when operating in the "Signal Tower Mode" and the Multifunction button for this product is pressed.



When the Multi-function button is pressed for about 3 seconds and released, the LEDs on all tiers flash in green and the LED color change and version confirmation can be checked.

As shown in the figure below, each time the Multi-function button is pressed briefly (about 0.5 seconds), 3 types of LED color changes, version check, and return to normal status can be selected.

From the flashing green status, if the Multi-function button is pressed and held for about 3 seconds, the LED color change function is activated.



<LED Color Change>

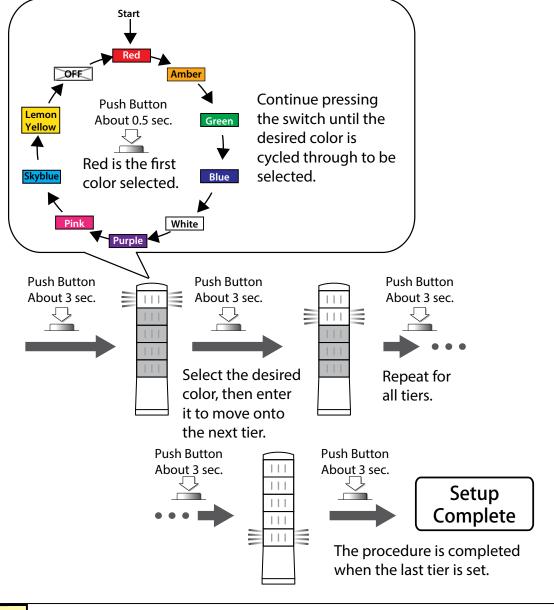
The LED color which operates in the Signal Tower mode can be changed.

First, the LED color change starts from the1st tier where the red LED turns on.

As shown in the figure below, whenever the Multi-function button is pushed for a short time (Ab. 0.5 sec.), the 1st tier of the LED lighting color changes in order.

With the desired color lit, if the Multi-function button is pressed a little longer (about 3 seconds), the LED color of the second tier can be changed to the desired color while the LED of the first tier remains lit with the selected color.

As with the first LED tier, change the LED color up to the last tier and push the Multi-function button a little longer (about 3 seconds) to complete the color change for all the LED tiers.



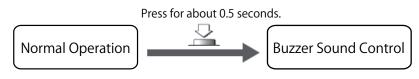
 ${f I}$ If there is a tier which does not change color, be sure to reset all tiers and do over.

🕂 None of the LED tier colors are saved until the last tier is set up.

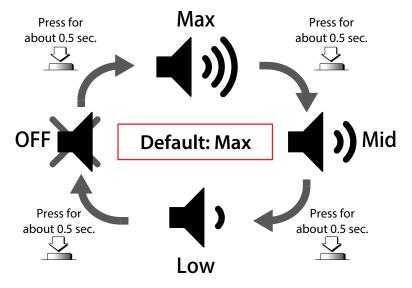
A If the operation is not done within 15 seconds or more, the LED colors return to normal operation without saving the selected LED colors.

6.6. Buzzer Sound Control

There are two ways to adjust the buzzer sound volume for this product; using the Web setting method and setting the button operation method. Refer to "4.5 Main Unit Setup" on page 23 for the method to set up via the Web Setting Screen. The method to set up by operating the setting buttons is as follows.



To adjust the buzzer volume, press the Mode Switch for a short time (about 0.5 seconds). Whenever the Mode Switch is pushed, the volume changes in the order according to the following figure, and a beep sound is heard with the changing of the volume. Volume adjustment is completed when the beep sound is done.



6.7. Language Data Update

This product can display up to two languages on the Web Setting Screen.

The default language is "English", but the language can be selected to display "Japanese".

By uploading language data to this product from the login screen, the language displayed in the Web setting screen can be changed.

① Click the "Language Upload" button. Up to two languages can be saved.

A B http://192.168.10.1/	- C 🔤 LA6 Setup Tool 🛛 🗙	<u> </u>
Select Language : Japanese 🗸		Language Upload
	LA6 Setup Tool	
 Select the preferred language 		
Sciect the preferred language		
	Password	
	Login	

2 The uploaded language is displayed on the screen.

← 🕞 🔤 http://192.168.10.1/		- C 🔤 LA6 Setup Tool 🛛 🗙		ሰ 🖈
Select Language : Japanese 🗸				Back To Login
	L	A6 Setup Tool		
		Language Upload		
	Upload File Current Language : Japanese	Change	参照	

③ Select the uploaded language data to change to, then click the "Change" button.

	When the language data is uploaded, English will not be replaced. The other language will be written and replaced.
MEMO	<rewriting example=""> Upload English Japanese Upload French English French English German</rewriting>

6.8. Firmware Update

6.8.1. Firmware update of the LED unit

The firmware can be updated in the Web Setting Screen.

[Update Method]

- 1 Log into the Web Setting Screen.
- ② Select "Firmware Update" from the menu items.
- ③ In "Update LED Unit", Click the "Browse" button to select the firmware of the LED unit.
- ④ Clicking the "Update" button will start the firmware update.

When the update is complete, the product will reboot automatically.

http://192.168.10.1/login.cgi	
PATLITE .	LED Unit Version : 1.00, LAN Unit Version : 1 MAC Address : 80:39:e5:00:94:bd
Signal Tower Setup	Firmware Update
Main Unit Setup	
Signal Tower Mode	After pressing the "Update" button, do not change the screen until the process has been completed.
Communication Setup	Furthermore, absolutely do not disconnect the unit's power during the process.
Network Setup	
Command Configuration	Update LED Unit
Nodbus/TCP Setup	Firmware Browse
peration during contact input	Automatic reboot after saving Update
Maintenance Service Setup	Automatic reboot after saving Update
Configuration	
Firmware Update	
Reinitialization	
Reboot	Update LAN Unit
Password Setup	Firmware Browse
.og Out	Automatic reboot after saving Update

Do not disconnect the unit's power or LAN cable during the update.

() Be sure to verify the object model and firmware version before executing an update.

If an object is not is selected when the firmware is to be updated , it will result in a cause of failure to this product.

6.8.2. Firmware update of the LAN unit

The firmware can be updated in the Web Setting Screen.

[Update Method]

- ① Log into the Web Setting Screen.
- 2 Select "Firmware Update" from the menu items.
- ③ In "Update LAN Unit", Click the "Browse" button to select the firmware of the LAN unit.
- ④ Clicking the "Update" button will start the firmware update.

When the update is complete, the product will reboot automatically.

		□ <mark>×</mark> ☆☆袋
PATLITE .	LED Unit Version : 1.00, LAN Unit Vers MAC Address : 80:39:e5:00:94:bd	ion : 1.02
Signal Tower Setup	Firmware Update	^
Main Unit Setup		
Signal Tower Mode	After pressing the "Update" button, do not change the screen until the process has been comp	leted.
Communication Setup	Furthermore, absolutely do not disconnect the unit's power during the process.	
Network Setup		
Command Configuration	Update LED Unit	
Modbus/TCP Setup	Firmware Browse	
Operation during contact input		
Maintenance Service Setup	Automatic reboot after saving Update	
Configuration		
Firmware Update		
Reinitialization		\sim
Reboot	Update LAN Unit	
Password Setup	Firmware Browse	
Log Out	Automatic reboot after saving Update	
-		
		_
		~

A CAUTION

() Do not disconnect the unit's power or LAN cable during the update.

If an object is not is selected when the firmware version before executing an update. If an object is not is selected when the firmware is to be updated, it will result in a cause of failure to this product.

7. Troubleshooting

If trouble is encountered while using this product, check the table below for applicable items and implement the contents described in "Cause / Countermeasure". If there is no applicable explanation, or if the "Cause/Countermeasure" can not be solved, contact your nearest PATLITE Sales Representative listed at the end of this book.

Problem	Cause/Countermeasure	Reference
	Is the LAN cable connected correctly? Check that it is connected properly.	"3.1 How to Install", pg. 9
	Is the connected LAN cable a category 5e or higher? Use a LAN cable rated at category 5e or higher.	"3.2.4 LAN Cable Connection", pg. 14
	Is the IP address setup for this product correct? Check the IP address for this product.	"4.3 Network Setup", pg. 18
The Web Setting Screen is not displayed.	Is the set IP address for this product duplicated with other equipment? Check the IP address for this product.	"4.3 Network Setup", pg. 18
	Is the IP address setup on the personal computer side set up wrong? Check the IP address for the personal computer.	-
	Is JavaScript disabled in the browser security setting? Enable the JavaScript.	-
	Clear the browsing history, then check it.	-
The Web Setting Screen is not displayed correctly.	Update the browser information, then check it.	-
When logging in the Web Setting Screen, an error is displayed.	Was the wrong IP address accessed? Check the IP address currently displayed in the address column of the browser.	-
	Is the DC power properly applied at the correct voltage? Be sure to use it with the proper voltage.	"10. General Specifications" on page 75
"Unable to communicate	Was this product booted while it was unable to	
with the LED Unit." is	communicate with a DHCP server?	
displayed on the WEB setting screen.	Check whether it can communicate with a DHCP server. Wait for a while before accessing the Web setting screen again.	-
	The LED unit may be faulty. Contact your nearest PATLITE Sales Representative	-
	Is it connected to the PoE power supply? Connect it to the PoE power supply.	"3.2.4 LAN Cable Connection", pg. 14
	Is the power properly supplying the correct voltage? Check that the supply voltage is at the rated voltage.	-
The LED does not light up or flash.	Is "BLACK" selected in the LED unit setting? Set a color to light up.	"4.4 LED Unit Setup", pg. 19
	Is the control method set up correctly? Make sure the setup matches the control method.	"4.5 Main Unit Setup", pg. 23
	Is the electric wiring connected correctly? Check whether the wiring is connected correctly.	"3.2 Wiring", pg. 11
A different LED tier from what I thought lights up	Is the setup data correct? Check that the contents of the setup data is correct.	"4.4 LED Unit Setup", pg. 19
what I thought lights up when I make it turn on.	Is the electric wiring connected correctly? Check whether the wiring is connected correctly.	"3.2 Wiring", pg. 11

Problem	Cause/Countermeasure	Reference
	Is the buzzer sound set to "Mute"?	"6.6 Buzzer Sound Control", pg.
	Set the buzzer sound to an audible level.	66
	Is the "Buzzer: No sound" selected in the smart mode setting?	"EDITOR for LA series" help
The buzzer does not sound.	Set up the desired buzzer pattern.	EDITOR IOI LA series help
	Is the power properly supplying the correct voltage?	_
	Please check that the supply voltage is at the rated voltage.	
	Is the electric wiring connected correctly?	"3.2 Wiring", pg. 11
	Check whether the wiring is connected correctly.	
	Is the buzzer volume set to minimum?	"6.6 Buzzer Sound Control", pg.
The buzzer sound volume	Set the buzzer sound to an audible level.	66
is small.	Is the setup data correct?	"4.4 LED Unit Setup", pg. 19
	Check that the contents of the setup data is correct.	"EDITOR for LA series" help
	Is the communication port correct?	"4.6 Command Configuration", pg.
	Check the port number setting.	24 #4.7 Madhus/TCD Satura" na 25
		"4.7 Modbus/TCP Setup", pg. 25
Cannot operate Socket Communication.	Is the communications protocol correct? Check the protocol setting.	"4.6 Command Configuration", pg. 24
Communication.	Check the protocol setting.	
	Is the transmitted data correct?	"5.1 PNS Command", pg. 30 "5.2 PHN Command", pg. 39
	Check the transmitted data.	"5.3 Modbus/TCP", pg. 41
It does not operate in DHCP	Check that the environment is connectable with a DHCP	5.5 Mousus, rer , pg. 41
mode.	server.	-
The Signal Tower will not		
switch off, even if the	Is the control method set to the signal line control method?	"4.5 Main Unit Setup", pg. 23
"Clear" switch is pressed.	Please set it to the command control method.	
The LED flashes red in all		
tiers immediately after	The setting data is damaged.	"4.4 LED Unit Setup", pg. 19
switching on the power.	Rewrite the setting data.	
The writing of the setting	Was the setting data for the LED unit and LAN unit written	
The writing of the setting data failed.	wrong?	-
	Make sure the setting data to be written is correct.	
The firmware writing has	Was the firmware for the LED unit and LAN unit written	
failed.	wrong?	-
	Make sure the firmware to the proper unit is written correctly.	
	Is the mirroring destination set up for the signal line control	
	method?	"4.9 Mirroring Setup", pg. 27
	Please set it to the command control method.	
	Is the IP address for the mirroring destination set in the	
	destination of the mirroring setting? Set the IP address correctly.	"4.9 Mirroring Setup", pg. 27
Mirroring does not display.		
	Was the LAN cable linked to the product substituted for	
	another HUB port? Reboot the HUB.	-
	Was the LED unit setting data read during the mirroring	
	operation?	-
	Reboot this product.	
The adhesive strength of	Is there dirt or oil adhered to the rubber sheet to weaken it?	
this rubber sheet becomes	Remove the bottom plate from the product, remove the dirt	"3.1 How to Install", pg. 9
weak.	etc., with water, then dry it thoroughly before reuse.	, , , , , , , , , , , , , , , , , , , ,
The exclusive page for the	The customer's exclusive page is:	
customer is unknown.	http://patlite.com/user/la6poe.html	-
		l

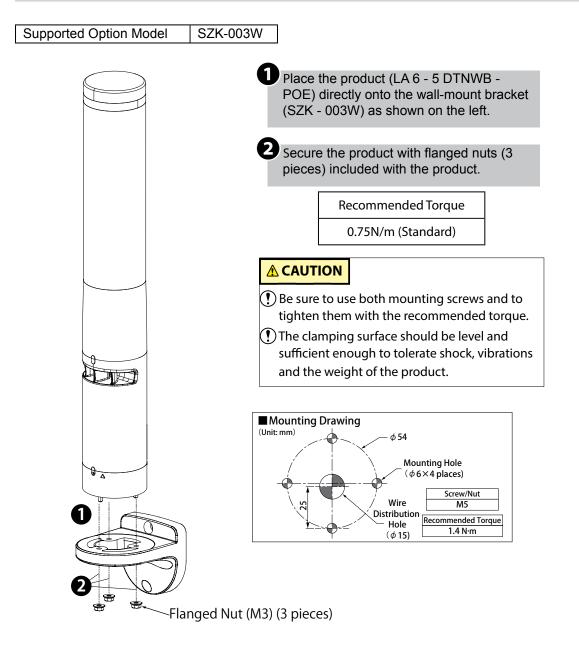
8. Replacement Parts

The replacement parts list for this products is shown in the table below. When replacement parts are necessary, direct your inquiries to the store where this product was purchased.

Head Cover
USB Cover
Waterproofing Ring B (2 pc. set)
LAN bracket assembly
Rubber sheet (3 pcs.)
Terminal connector

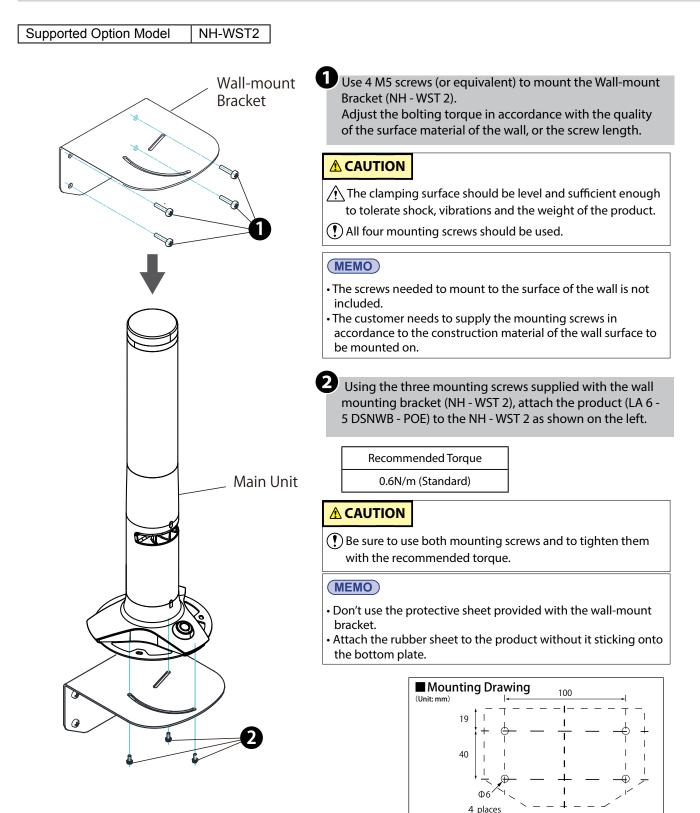
9. Option Parts

9.1. Wall-mount Bracket (Direct Mounting Type [TN])



MEMO For details of the wall-mount Bracket (SZK - 003W), refer to the operation manual for the wall-mount Bracket (SZK - 003W).

9.2. Wall-mount Bracket (Stationary Type [SN])



10. General Specifications

Model		LA6-5DTNWB-POE
Rated Voltage		DC24V
Power over Ethernet (PoE)		DC48V
Operating Voltage Range		DC24V ±10%
Power over Ethern		DC36 - 57V
Rated Current	Тур.	DC24V supply: 0.30A; PoE at DC48V supply: 0.18A %1
Consumption	Max.	DC26.4V supply: 0.49A; PoE at DC48V supply : 0.26A %1
	Tvn	DC24V supply: 7.2W; PoE at DC48V supply: 8.6W %1
Rated Power Consumption		DC26.4V supply: 12.9W; PoE at DC48V supply: 12.5W %1
Signal Wire Curren	:	DC26.4V supply: 420mA *1/70mA *2; PoE at DC48V supply: 10mA *1
Operating Ambient Temp	erature	-10°C - +50°C
Operating Ambient Hur	nidity	Less than 90%RH (No condensation)
Storage Ambient Tempe	rature	-10°C - +50°C
Storage Ambient Hum		Less than 90%RH (No condensation)
Mounting Location		Indoors
Mounting Direction		Upright
Protection Rating		IP54 (IEC 60529)
Environmental Co	ndition	Upright
Vibration Resistanc	5	10m/s ² (JIS C 60068-2-6)
Environmental Co	ndition	Upright
Insulation Resistance	e	More than $1M\Omega$ at 500VDC Between live part and non-current carrying metallic part
Withstand Voltage		500VAC applied for 1min between live part and non-current carrying metallic part without breaking insulation
Mass (Tolerance ±10	%)	630g
Outer Dimensions		Refer to "2.2. Part Names and Dimensions" on page 8
LED Tiers		5
Display Color Variatio	ns	Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors
Sound Pressure Lev		85dB or more
Environmental Co	ndition	Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1m
	No.1	2400Hz Continuous beep sound
	No.2	2400Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence)
		2400Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence)
	No.3	
	No.3	2400Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence)
		2400Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence) 3600Hz Continuous beep Sound
"Buzzer Sound	No.4	
"Buzzer Sound (Typical Frequency)"	No.4 No.5	3600Hz Continuous beep Sound
	No.4 No.5 No.6	3600Hz Continuous beep Sound 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence)
	No.4 No.5 No.6 No.7	3600Hz Continuous beep Sound 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence) 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence)
	No.4 No.5 No.6 No.7 No.8	3600Hz Continuous beep Sound 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence) 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence) 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence)
	No.4 No.5 No.6 No.7 No.8 No.9	3600Hz Continuous beep Sound 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence) 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence) 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence) 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)
(Typical Frequency)" Volume Control	No.4 No.5 No.6 No.7 No.8 No.9 No.10 No.11	3600Hz Continuous beep Sound 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence) 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence) 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence) 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]) Switchable by Web setup tool
(Typical Frequency)" Volume Control ※ 1 Environmental Condi	No.4 No.5 No.6 No.7 No.8 No.9 No.10 No.11	3600Hz Continuous beep Sound 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence) 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence) 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence) 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum])

Model		lodel	LA6-5DTNWB-POE
Luminous Intensity (typ) %3		tensity (typ) 💥 3	Red (1000mcd), Amber (1700mcd), Green (2600mcd), Blue (1000mcd), White (1250mcd)
Lummot	Luminous intensity (typ) %3		Purple (800mcd), Pink (850mcd), Lemon (2150mcd), Sky blue (2150mcd)"
Flashing Rate		ing Rate	"30±2 Flashes Per Minute, 60±2 Flashes Per Minute, 120±2 Flashes Per Minute (Factory
		ing nate	Default: 60 Flashes Per Minute) Switchable by Web setup tool"
	Power/Contact Input		Screwless Terminal Block (Number of Contacts: 12)
			Wire Diameter: 0.2 -1.5mm ² (Solid Wire), AWG24-16 (Stranded Wire)
			"Power: 2(DC24V) Contact Input: (External relay/NPN/PNP): 8 Flashing/Pulse Enable: 1 COM: 1"
			RJ-45 Connector
	Г	PoE	Corresponding to IEEE802.3af Class 0 Conformity
	ŀ	Communication	
Interface		Method	Ethernet (IEEE802.3 Conformity)
	ŀ	Physical Layer	10BASE-T/100BASE-TX (Auto-MDI/MDIX)
	Ī	Data Link Layer	CSMA/CD
	Γ	Network Layer	IP/ARP/CMP
	Ī	Transport Layer	TCP/UDP
	Ī	Application Layer	HTTP/DHCP/Modbus/TCP/Socket (Corresponds to PHN/PNS Comands)
	USB		USB micro-B Terminal USB2.0
C	pera	ation Part	Multi-function Button (Set in Head Cover)
Ir	ndica	ntor Light	None
Va	riou	s Settings	Switchable by Web setup tool
Ope	ratio	nal Method	Signal Wire Control/Command Control
	Acc	essory	Hexagon Nut with Flange (M4) 3pcs, Screw (M4×20) 3pcs
C)ptio	nal Parts	Installation Bracket (SZW-060W), Wallmount Bracket (SZK-003W)
Conne	ectal	ble LAN cable	Category 5e or higher (Both Straight Cable and Cross Cable can be used)
			RoHS Directive (EN 50581)
			EMC Directive (EN 61000-6-4, EN 61000-6-2, EN55032 ClassA, EN55024)
Conf	ormi	tv Standards	FCC Part 15 Subpart B Class A
Conformity Standards		ty standards	KC (KN 61000-6-4, KN 61000-6-2)
			UL 508, CSA-C22.2 No.14 Recognized Component (File No.E215660) & DC24V supply only
			UL 60950-1, CAN/CSA C22.2 No. UL60950-1-07 Recognized Component (File No.E480103)
× 2 D ·		marks	CE Marking
3 Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every			
product may occur."			

Volume Control [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.	Model		LA6-5DSNWB-POE
Power over Ethernet (PoE) DC48V Operating Voltage Range DC24V ± 10% Power over Ethernet (PoE) DC36 - 57V Rated Current Typ. DC26AV supply: 0.30A; PoE at DC48V supply: 0.18A *:11 Consumption Max. DC26AV supply: 7.24V; PoE at DC48V supply: 0.04 *:1 Rated Power Consumption Typ. DC26AV supply: 7.24V; PoE at DC48V supply: 2.04 *:1 Signal Wire Current DC26AV supply: 12.9W; PoE at DC48V supply: 10.54 *:1 Operating Ambient Temperature -027C - +50°C Operating Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Direction Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance More than 1MO at 500VDC between live part and non-current carrying metallic part. With stand Voltage S00VAC applied for timi between live part and non-current carrying metallic part. With stand Voltage S00VAC applied for timi between live part and non-current carrying metallic part. Wi			DC24V
Operating Voltage Range DC24V ±10% Power over Ethernet (PoE) DC36 - 57V Rated Current Consumption Typ. DC24V supply: 0.187. PoE at DC48V supply: 0.18A ※1 Rated Power Consumption Max. DC26.4V supply: 7.2W; PoE at DC48V supply: 2.5W %1 Signal Wire Current DC26.4V supply: 12.9W; PoE at DC48V supply: 10.5W %1 Signal Wire Current DC26.4V supply: 12.9W; PoE at DC48V supply: 10MA ※1 Operating Ambient Temperature -10°C - +50°C Operating Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Storage Ambient Temperature -10°C + 50°C Protection Rating IP20 (IEC 60529) Environmental Condition Upright Protection Rating Nore Insulation Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage S00WAC applied for 1min betweenlive part and non-current carrying metallic part. Storage Ambient Temperature 5			DC48V
Power over Ethernet (PoE) DC36 - 57V Rated Current Typ. DC24V supply: 0.30A; PoE at DC48V supply: 0.18A %1 Consumption Max. DC26AV supply: 0.20A; PoE at DC48V supply: 12.6W %1 Rated Power Consumption Typ. DC26AV supply: 12.9W; PoE at DC48V supply: 12.9W %1 Signal Wire Current DC26AV supply: 12.9W; PoE at DC48V supply: 12.9W %1 Operating Ambient Temperature -10°C - +50°C Operating Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance None Insulation Resistance More than 1MQ at 500VDC between live part and non-current carrying metallic part. Mass (Tolerance ±10%) Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85d8 or more Evironmental Condition No1 No.1 2400Hz Continuous beep sound No.2 2400Hz Continuous beep sound No.3 <t< td=""><td colspan="2"></td><td>DC24V ±10%</td></t<>			DC24V ±10%
Consumption Max DC26.4V supply: 0.49A; PoE at DC48V supply: 0.26A %1 Rated Power Consumption Typ. DC24V supply: 7.2W; PoE at DC48V supply: 8.6W %1 Signal Wire Current DC26.4V supply: 12.9W; PoE at DC48V supply: 12.5W %1 Operating Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Location Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance More than 1MQ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500WAC applied for 1min between live part and non-current carrying metallic part. Sound Pressure Level SdB or more Sound Pressure Level SdB or more Invironmental Condition No.1 No.2 2400Hz Aspid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.3 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz Aspid intermittent beep (0.5 sec. silent			DC36 - 57V
Consumption Max DC26.4V supply: 0.49A; PoE at DC48V supply: 0.26A %1 Rated Power Consumption Typ. DC24V supply: 7.2W; PoE at DC48V supply: 8.6W %1 Signal Wire Current DC26.4V supply: 12.9W; PoE at DC48V supply: 12.5W %1 Operating Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Location Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance More than 1MQ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500WAC applied for 1min between live part and non-current carrying metallic part. Sound Pressure Level SdB or more Sound Pressure Level SdB or more Invironmental Condition No.1 No.2 2400Hz Aspid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.3 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz Aspid intermittent beep (0.5 sec. silent	Rated Current	Typ.	DC24V supply: 0.30A; PoE at DC48V supply: 0.18A %1
Mate DC26.4V supply: 12.9W; PoE at DC48V supply: 12.5W %1 Signal Wire Current DC26.4V supply: 420mA **/70mA**; PoE at DC48V supply: 10mA %1 Operating Ambient Temperature -10°C + 50°C Operating Ambient Temperature -10°C + 50°C Storage Ambient Temperature -10°C - + 50°C Withstamature Moentinal Dotation Upright Vibration Resistance More than 1MQ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Withstand Vo			
Mate Power Consumption Max. DC26.4V supply: 12.9W; PoE at DC48V supply: 12.5W %1 Signal Wire Current DC26.4V supply: 420mA **/70mA **; PoE at DC48V supply: 10mA **1 Operating Ambient Temperature -10°C - +50°C Operating Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Protection Rating Indoors Protection Rating Wirstand Ambient Temperature Voltardion Resistance None Insulation Resistance None Sourd Prescure 10%) Refer to *2.2. Part Name		Тур.	DC24V supply: 7.2W; PoE at DC48V supply: 8.6W %1
Operating Ambient Temperature -10°C - +50°C Operating Ambient Humidity Less than 90%RH (No condensation) Storage Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Mass (Tolerance ± 10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more No.2 2400Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz Continuous beep sound No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous beep (0.5 sec. sound / 0.5 se	Rated Power Consumption		DC26.4V supply: 12.9W; PoE at DC48V supply: 12.5W ※1
Poerating Ambient Humidity Less than 90%RH (No condensation) Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Location Indoors Mounting Direction Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Mass (Tolerance ±10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition Mox1 No.1 2400Hz Continuous beep sound No.2 2400Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.3 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz As 3360Hz Continuous beep Sound No.5 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec.	Signal Wire Current	1	DC26.4V supply: 420mA ^{**1} /70mA ^{**2} ; PoE at DC48V supply: 10mA * 1
Operating Ambient Humidity Less than 90%RH (No condensation) Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Location Inddoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Mass (Tolerance ± 10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition No.1 2400Hz Continuous beep sound No.2 2400Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.3 2400Hz Continuous beep Sound No.4 2400Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.5 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent)		rature	-10°C - +50°C
Storage Ambient Temperature -10°C - +50°C Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Location Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance None Insulation Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Mass (Tolerance ± 10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more No.1 2400Hz Continuous beep sound No.2 2400Hz Continuous beep sound No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous be			Less than 90%RH (No condensation)
Storage Ambient Humidity Less than 90%RH (No condensation) Mounting Location Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance None Insulation Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part without breaking insulation. Mass (Tolerance ±10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Sound Pressure Level 85dB or more Royal Pressure Level 85dB or more Moving Direction of the buzzer aperture at 1m No.1 Volume Control No.2 2400Hz Continuous beep sound No.3 2400Hz Continuous beep Sound /0.05 sec. silent) No.4 No.4 2400Hz Continuous beep Sound No.5 No.4 2400Hz Continuous beep Sound No.5 sec. silent) No.4 3600Hz Continuous beep Sound No.5 No.6 3600Hz			-10°C - +50°C
Mounting Location Indoors Mounting Direction Upright Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance None Insulation Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part. Mass (Tolerance ±10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1m No.2 2400Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.3 2400Hz Continuous beep Sound No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous beep Sound No.4 2400Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 3600Hz Continuous beep Sound No.5 3600Hz Continuous beep So			Less than 90%RH (No condensation)
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Protection Rating IP20 (IEC 60529) Environmental Condition Upright Vibration Resistance None Insulation Resistance More than 1MΩ at 500VDC between live part and non-current carrying metallic part. Withstand Voltage 500VAC applied for 1min between live part and non-current carrying metallic part without breaking insulation. Mass (Tolerance ±10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1m No.1 2400Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.2 2400Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous beep Sound No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.4 2400Hz Continuous beep Sound No.7 3600Hz Continuous beep Sound No.7 3600Hz Rapid intermittent b	·		Upright
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Mass (Tolerance ±10%) 780g Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1m No.1 2400Hz Continuous beep sound No.2 2400Hz Long intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.3 2400Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous beep Sound No.4 2400Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 3600Hz Continuous beep Sound No.5 3600Hz Continuous beep Sound No.6 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.7 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec.) No.10 2400Hz & 4800Hz Multiplexed			
Outer Dimensions Refer to "2.2. Part Names and Dimensions" on page 8 LED Tiers 5 Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1m No.1 2400Hz Continuous beep sound No.2 2400Hz Long intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.3 2400Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous beep Sound No.6 3600Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.7 3600Hz Continuous beep Sound No.7 3600Hz Continuous beep (0.5 sec. sound / 0.5 sec. silent) No.8 3600Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.8 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.9 2440Hz &		b)	
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Display Color Variations Signal Tower Mode: 9 Colors / Smart Mode: 21 Colors Sound Pressure Level 85dB or more Environmental Condition Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1m Value 2400Hz Continuous beep sound No.1 2400Hz Continuous beep sound No.2 24400Hz Long intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.3 24400Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 2400Hz Continuous beep Sound No.5 3600Hz Continuous beep Sound No.6 3600Hz Rapid intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.6 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.8 3600Hz Long intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.8 3600Hz A signal Tower Mode: 24 Sound / 0.5 sec. silent) No.8 3600Hz A signal Tower Mode: 24 Sound / 0.5 sec. / 0.25 sec.) No.10 24400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) </td <td></td> <td></td> <td></td>			
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"Buzzer Sound (Typical Frequency)" No.1 2400Hz Continuous beep sound "Buzzer Sound (Typical Frequency)" No.2 2400Hz Long intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.4 2400Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.4 No.5 3600Hz Continuous beep Sound No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.5 sec. silent) No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.7 3600Hz Long intermittent beep (1.5 sec. sound / 0.5 sec. silent) No.7 3600Hz Long intermittent beep (0.25 sec. sound / 0.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.8 3600Hz Kast intermittent beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-0FF] (-> Returns to [Maximum]), Switchable by Web setup tool % 1 Environ	Environmental Con	dition	Maximum volume, Buzzer Sound No.1 measured from the front direction of the buzzer aperture at 1 m
"Buzzer Sound (Typical Frequency)" No.3 2400Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silent) No.4 2400Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.5 3600Hz Continuous beep Sound No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.7 3600Hz Long intermittent beep (1.5 sec. sound / 0.5 sec. silent) No.7 3600Hz Long intermittent beep (0.05 sec. sound / 0.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [0FF] (-> Returns to [Maximum]), Switchable by Web setup tool % 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.		No.1	
"Buzzer Sound (Typical Frequency)" No.3 2400Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silent) No.4 2400Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.5 3600Hz Continuous beep Sound No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.7 3600Hz Long intermittent beep (1.5 sec. sound / 0.5 sec. silent) No.7 3600Hz Long intermittent beep (0.05 sec. sound / 0.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [0FF] (-> Returns to [Maximum]), Switchable by Web setup tool % 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.		No.2	2400Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent)
"Buzzer Sound (Typical Frequency)"No.53600Hz Continuous beep SoundNo.63600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent)No.73600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silent)No.83600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent)No.92400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)No.102400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)No.114000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)No.114000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)Volume ControlThe set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool)[Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool% 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.		No.3	
"Buzzer Sound (Typical Frequency)" No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.7 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.12 Fest up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.		No.4	2400Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent)
"Buzzer Sound (Typical Frequency)" No.6 3600Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silent) No.7 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.12 Fest up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.		No.5	3600Hz Continuous beep Sound
(Typical Frequency)** No.7 3600Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silent) No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.			
No.8 3600Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silent) No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [0FF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.	(Typical Frequency)"	No.7	
No.9 2400Hz & 3375Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.			
No.10 2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.			
No.11 4000Hz & 4800Hz Multiplexed Beep (0.25 sec. / 0.25 sec.) Volume Control The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.			2400Hz & 3600Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)
Volume Control The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool) [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool ※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.			
(standard)] -> [OFF] (-> Returns to [Maximum]), Switchable by Web setup tool			The set up button is the fourth step (Factory Default: Maximum, Switchable by Web setup tool)
※ 1 Environmental Condition: All tiers lighting Amber, buzzer sounding Buzzer No.1 at maximum volume.	Volume Control		
	※ 1 Environmental Conditi	on: All	
※ 2 Environmental Condition: Tier 1 lighting Amber with no sound.	× 2 Environmental Condit	ion: Tie	r 1 lighting Amber with no sound.

Model		LA6-5DTNWB-POE
Luminous Intensity (typ) ※3		Red (1000mcd), Amber (1700mcd), Green (2600mcd), Blue (1000mcd), White (1250mcd) Purple (800mcd), Pink (850mcd), Lemon (2150mcd), Sky blue (2150mcd)"
Flashing Rate		"30±2 Flashes Per Minute, 60±2 Flashes Per Minute, 120±2 Flashes Per Minute (Factory
	-	Default: 60 Flashes Per Minute) Switchable by Web setup tool" Screwless Terminal Block (Number of Contacts: 12)
		Wire Diameter: 0.2 - 1.5mm ² (Solid Wire), AWG24-16 (Stranded Wire)
	Power/Contact Input	"Power: 2(DC24V) Contact Input: (External relay/NPN/PNP): 8
		Flashing/Pulse Enable: 1 COM: 1"
	LAN	RJ-45 Connector
	PoE	Corresponding to IEEE802.3af Class 0 Conformity
Interface	Communication Method	Ethernet (IEEE802.3 Conformity)
	Physical Layer	10BASE-T/100BASE-TX (Auto-MDI/MDIX)
	Data Link Layer	CSMA/CD
	Network Layer	IP/ARP/CMP
	Transport Layer	TCP/UDP
	Application Layer	HTTP/DHCP/Modbus/TCP/Socket (Corresponds to PHN/PNS Comands)
	USB	USB micro-B Terminal USB2.0
0	peration Part	Multi-function Button (Set in Head Cover)
		Clear Switch
Ir	ndicator Light	1 (Green): Built in Clear Switch
		※ Always ON when Power is applied
	rious Settings	Switchable by Web setup tool
Ope	rational Method	Signal Wire Control/Command Control
	Accessory	Rubber Sheet
	Pptional Parts	Wallmount Bracket (NH-WST2)
Conne	ectable LAN cable	Category 5e or higher (Both Straight Cable and Cross Cable can be used)
		RoHS Directive (EN 50581) EMC Directive (EN 61000-6-4, EN 61000-6-2, EN55032 ClassA, EN55024) FCC Part 15 Subpart B Class A
Confe	ormity Standards	KC (KN 61000-6-4, KN 61000-6-2)
		UL 508, CSA-C22.2 No.14 Recognized Component (File No.E215660) ※DC24V supply only
		UL 60950-1, CAN/CSA C22.2 No. UL60950-1-07 Recognized Component (File No.E480103)
Remarks		CE Marking
% 3 Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every		
product may occur."		



- Specifications may change without notice due to continual product improvement.

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