SERIES





Monitoring







11



The first PC programmable Signal Tower with unlimited possibilities

60mm Smart Signal Tower

- DC24V/5 Tier Type
- AC 100-240V/ 5 Tier Type

LA6







Lighting Type

Off-white Flashing /Buzzer Type

60mm Smart Signal Towers with PoE **Direct Mount Type**

LA6-5DTNWB-POE Stationary Type w/"Clear" Switch LA6-5DSNWB-POE





(Direct Mount)





Multi-function Switch for various setups

Audible Alarm SOUND SETUP The built-in switch has four selectable settings for "Loud" (about 85dB) -> "Middle" (about 80dB) -> "Low" (about 75dB) -> "Off".

COLOR SETUP

The built-in switch can also allow a manual selection of 9 colors to be set for each tier.



A new lens design optimizes visibility.

The newly developed lens design efficiently diffuses LED light so that it is unmistakably visible, even from great distances.



The Audible Alarm has a total of 11 sounds to match various applications.

A newly developed compact loudspeaker not only can transmit a clear sound of 85 dB (at 1m), but also has added water resistance. A different alarm sound can be set up with each display pattern when in the Smart mode. (Only three of the 11 alarm patterns are selectable in the Signal Tower mode)



Use the free editing software to freely change the LA6 colors and patterns.

Upload colors and patterns to the signal tower via a USB cable.*
* The USB cable is sold separately (USB microB type with Charging/ Data Transfer capability).

LA6-POE **Communications Protocols**

SOCKET Communication

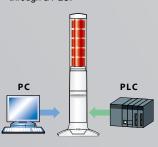
An application-level protocol called PNS (developed by PATLITE) can be used to establish connection between client and server and to control visual and audible alert functions.

(Hypertext Transfer Protocol)

HTTP commands sent through a web browser or PLC can trigger visual and audible alert functions.

Modbus TCP/UDP -remove images

Modbus, a vendor-neutral protocol, can be used to control visual and audible alert functions through a PLC.



Detachable Terminal Block

Equipped with 8 inputs for connecting wires or a PLC. I/O data can be recorded and stored over the network. DC power can also be supplied through the terminal block.



Conveniently connects to an existing network with PoE support.

PoE (Power over Ethernet) is a technology which lets network cables carry electrical power. PoE can bring many advantages, such as reducing costs of installing electrical cabling, by connecting it with a HUB supporting PoE, or have the flexibility of not having to be tethered to an electical outlet.

SERIES

Network Monitoring Signal Tower with MP3

NHL-3FV2 NHP-3FV2

- Audible Alarm and MP3 voice alert functions
- Built-in digital output and contact inputs
- Monitor network device status using SNMP protocol

PING

RSH

LAN

10

Sounds

Output

- Able to send email alerts

Easy

WEB SNMP

v1/v2c

Socket

88 dB

at 1 m

Inputs



EMAIL

SLMP

MP3

60

Messages

Line out

HTTP



Wa**ll**-mount Bracket

NH-WST2

Lights Off

Network Monitoring Signal Tower

NHL-3FB2 NHP-3FB2

- Designed to compliment office spaces
- Up to 5 LED units with 2 types of flashing patterns
- 4 audible alarm sound types

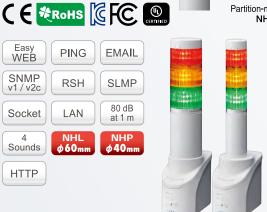


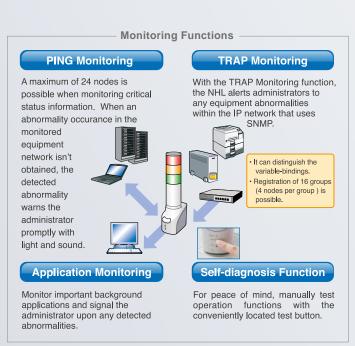


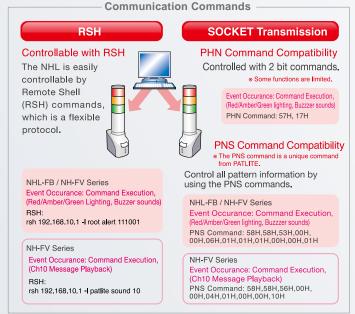
Wall-mount Bracket NH-WST



Partition-mount Bracket NH-PST











DIRECTLY TRIGGERED AND POWERED VIA USB INTERFACE

PC and HMI controlled

Powered over USB for single cord installation

Open architecture for custom programming

Compatible with Windows® and Linux





Compatible LED Units







LR6-E-R/Y/G/B/C

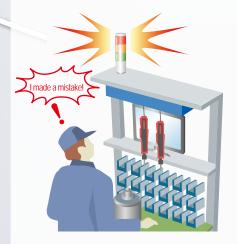
LR6-E-RZ/YZ/GZ/BZ

LR6-E-MZ

*Supports up to 5 LED units total
*LR6-E-MZ can be used with any other LED unit types



Ideal for Factory Automation, Unique Solutions for USB Connections



Production line

With this easy-to-use and understand signal tower, you can alert and notify users about what is happening on the production lines.

The signal tower connects to a production line PC with a single USB cable. Working with a program to determine OK or not good, or situations where material is out or a button on the touch panel is pressed, you can control flashing LED units or sound the buzzer.

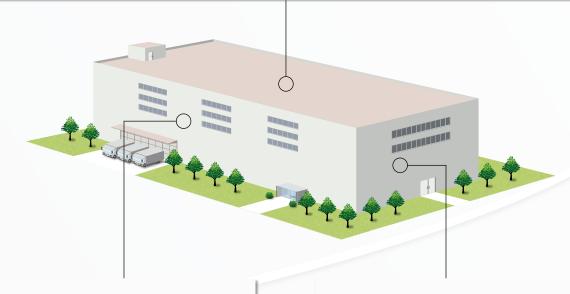
A software library (for Windows®) is available, enabling easy construction of programs. Even on other operating systems, possible for control based on protocol specifications.

The signal tower can be used for various purposes, such as notifying managers or warning operators.



PC, panel computer, and so on

LR6-USB



Work with PC in an office

Site visualization solution

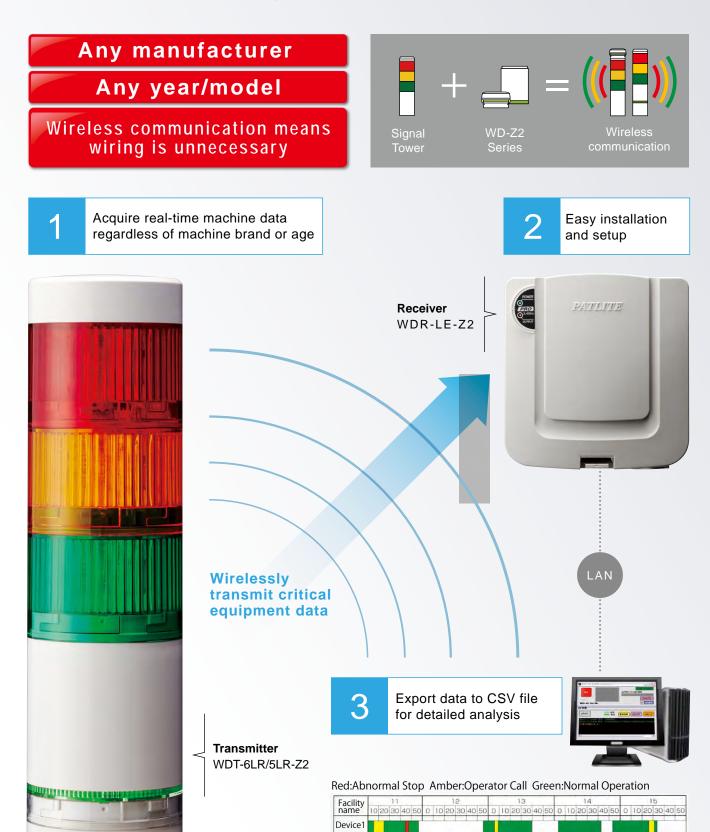


Installed on equipment

Work with PC-controlled equipment

WD-Z2 SERIES

Make Smarter, Data-Driven Decisions



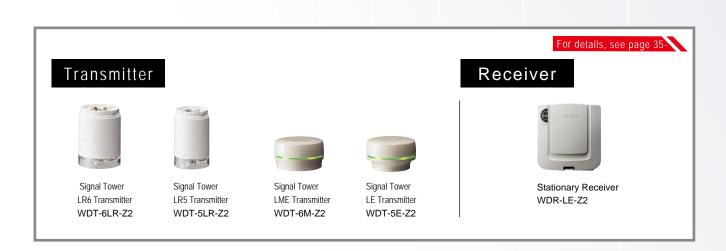
Device2 Device3 Device4

Centralize operations management

Monitor
performance
across multiple
locations

Increase plant-wide visibility







Next Evolution of Signal Towers



Visibility



A uniform 360° Light-Emitting Design

The new LED color module features a unique interior lens construction that achieves a fuller, more uniform 360° degree light output. Light color is vibrant with more emission area for reliable indication from farther distances.





LCE-A Series (ϕ 40)

LR4 Series (ϕ 40)

More than twice the light output * Based on the ϕ 40 Red LED Model

The LR Series lenses distribute light more efficiently, more than doubling the luminous intensity of previous models.

Audibility







Unique, Fully-enclosed Sound Module

Inspired by the structure of a drum, the new sound module is completely enclosed. This allows the sound waves to be distributed more efficiently, producing an even, 360° sound resonance. The enclosed design also improves the resistance to water and dust.

* According to our research, December 2018





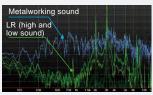
LHE Series (ϕ 70)

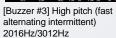
LR7 Series (φ70)

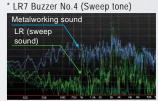
Maximum 90dB ※ output

* LR7 Series Buzzer #4 Sweep sound

The fully enclosed sound module structure produces more efficient sound, up to $90\mathrm{dB}$, at 1 meter.







[Buzzer #4] Sweep sound 1000Hz - 4032Hz (variable)

New Sounds Heard Above the Noise

Four Audible Alarm sounds* are built into the module. Audible Alarm sound No. 3 and No. 4 are newly developed with a higher variable frequency to be heard above the noise of surrounding machinery. A sound reduction function is also built-in to reduce the buzzer volume by approximately 10dB to suit the environment.

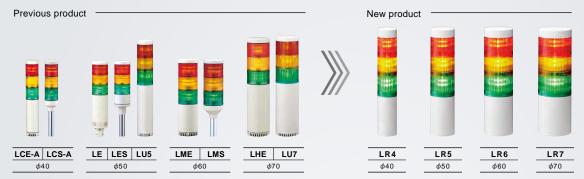
* Four Audible Alarm Sounds

No.1:Rapid Intermittent sound No.2:Continuous sound No.3:Rapid Hi-Low No.4:Sweep sound



LR Series Model Conversion

As of September 2017, production of legacy models have completed.



Simplicity



Reorganizing modules is effortless

Traditional stack lights typically require additional threaded shafts or tools to reconfigure light modules. The LR Series makes it easier than ever to change the number of light tiers or to add a sound module.



Modular System Design

The fully modular allows the flexibility to change the LR to match any changes in the application. Also, in case a module is damaged, it can quickly be replaced.





-Durability



Smooth surface

The modules and body unit all line up flush, creating a smooth surface for improved water run off and easy cleaning



Environmental Performance

The LR Series is built resistant to water and dust, carrying IP65 (NEMA Type 4X, 13*) protection ratings.

*[Type 4X] Protection against damage from corrosion, rain, foreign mattar, water spray, water injection, and ice formation to the outer housing. [Type 13] Housing for indoor use. Protection from dust, water spray, oil and non-corrosive coolant.