

## Real-time Visual LED Display Board

### VE Series

Our VE Series Visual LED Display serves as a rugged, factory floor Andon system, with real-time production status indication to alert product performance to workers and supervisors. The VE Series Visual LED Display is easy to install directly on operator workstations or automated machinery, and the wireless remote control unit enables easy setup. The VE Series Visual LED Display comes in 2 models (25mm or 100mm character height), and it fully supports the principles of "Kaizen" (continuous improvement) to achieve a "Visual Factory", where clear and easy to understand information is quickly accessible.

- Improve Manufacturing Productivity
- Reduce Down Time for "Kaizen"
- Ideal for Lean Manufacturing
- Real-time Production Monitoring
- Large Digital Displays
- Easy Installation

## Simple Economical Lean Manufacturing System

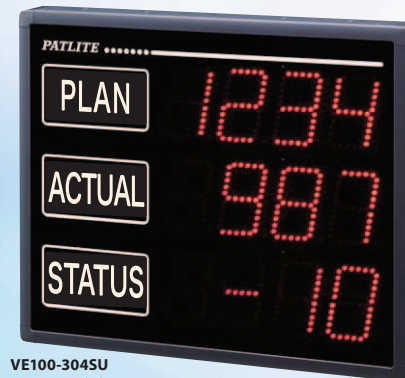
- Easy Set-up



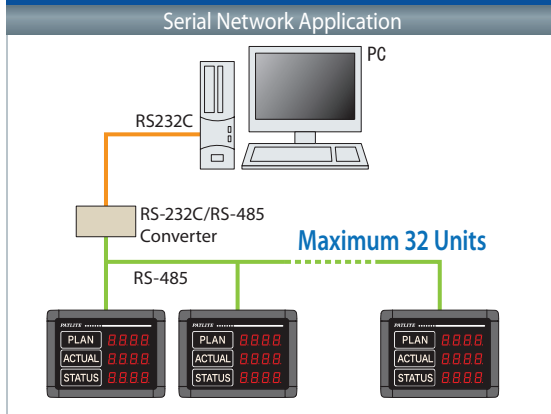
- Three Terminal Output



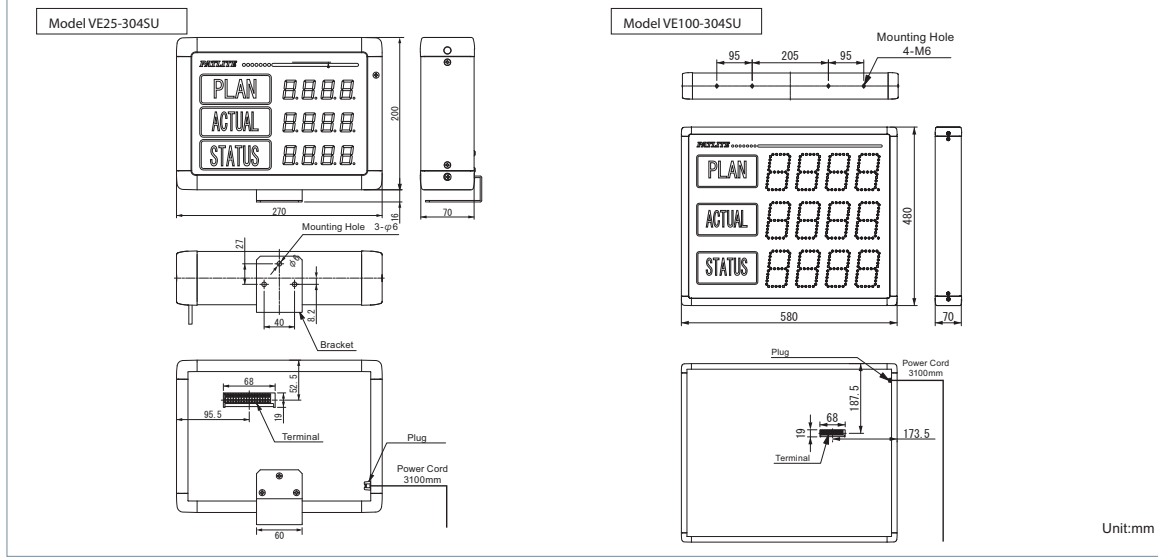
- Optional Bracket (for VE-100) Available



\* Compliant with FCC Title 47 Part 15 Subpart B



Dimensions



<http://www.patlite.com>

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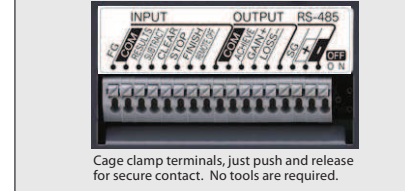
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Screwless Terminal (No tools required)



**CAUTION**  
 To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.



**PATLITE ECO PROJECT**  
 For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.

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# MP / MPS

## Colonnes Lumineuses



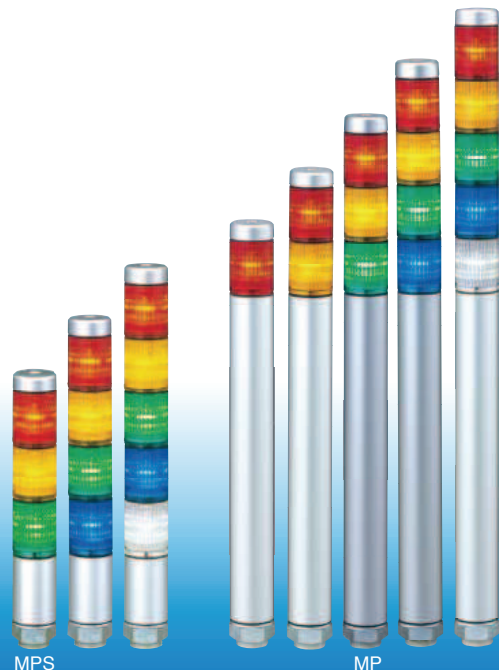
LED

Câble  
(commande spéciale)

Ø30

IP65

NPN/PNP  
Collecteur ouvert



Système breveté de réflexion augmentant la visibilité.

### Colonnes Lumineuses très fines Ø 30mm avec boîtier argent idéal pour de petits appareils.

- Verrines à lentilles prismatiques hybrides de PATLITE: Pour une augmentation de la visibilité dans toutes les directions et à toutes les distances.
- Double Isolation: Pour augmenter la durée de vie et la sécurité dans les environnements de travail.
- Installation: Montage direct avec un seul trou.
- Modules à LED interchangeables: sans recâblage même après installation.
- Boîtier: Résine ABS supérieure résistante aux impacts et aux coups.
- Verrines: Résine AS supérieure transparente résistante aux intempéries.
- Couleurs: Rouge, Orange, Vert, Bleu, Blanc.

#### Valable pour commandes spéciales.

- Câble: 3m de câbles multiconducteur souple.
- Toutes les verrines incolores: Couleurs distinctes pendant l'utilisation (Type B0438).

- Couleurs: Rouge, Orange, Vert, Bleu, Blanc.

#### Modules à LED interchangeables

- Module de couleur changeable: Facile d'ajouter/enlever les 5 modules de couleur même après installation.
- Note: Les modules à LED de même couleur seront allumés simultanément.

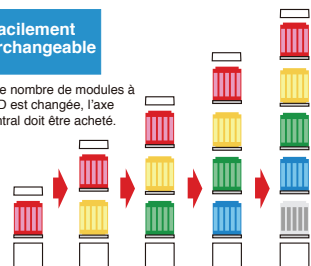
Les couleurs sont les mêmes.

Chaque couleur de module de LED correspond à la couleur de fil de connexion.

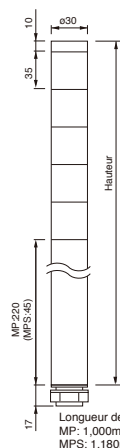


#### Facilement interchangeable

Si le nombre de modules à LED est changé, l'axe central doit être acheté.



## Dimensions

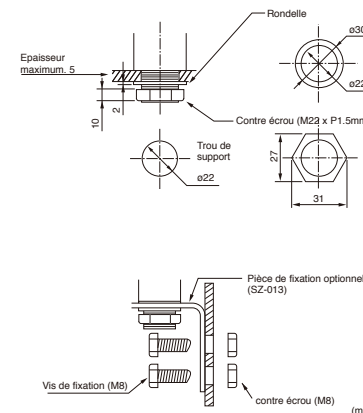


Type MP

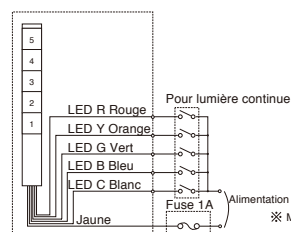
Hauteur (mm)	1 Lumière: 265
	2 Lumières: 300
	3 Lumières: 335
	4 Lumières: 370
	5 Lumières: 405

Type MPS

Hauteur (mm)	1 Lumière: 90
	2 Lumières: 125
	3 Lumières: 160
	4 Lumières: 195
	5 Lumières: 230



## Branchement

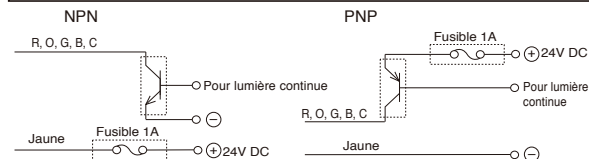


#### Tension et consommation des modules à LED

Alimentation	Tension interne	MP/MPS Consommation	Couleur des LED	Couleur des fils
24V AC/DC	24V DC	R,A: 30mA G,B,C: 25mA	R: Rouge	Rouge
			Y: Orange	Orange
			V: Vert	Vert
			B: Bleu	Bleu
			C: Blanc	Blanc

\* MP/MPS n'ont pas de polarité.

#### 24V DC: Commutation par transistor NPN / PNP



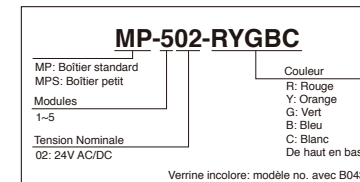
#### Caractéristiques du transistor

Modèle	MP/MPS
	Transistor (NPN/PNP)
Courant de commutation	I <sub>c</sub> ≥ 50mA
Tension de saturation	V <sub>ce</sub> ≥ 35V
Courant de fuite	I <sub>c</sub> < 0.1mA

## Type MP / MPS

Nombre de modules	Modèle	Tension Nominale	Puissance
1 Lumière	MP/MPS-102	24V AC/DC	0.7W
2 Lumières	MP/MPS-202	24V AC/DC	1.4W
3 Lumières	MP/MPS-302	24V AC/DC	2.0W
4 Lumières	MP/MPS-402	24V AC/DC	2.6W
5 Lumières	MP/MPS-502	24V AC/DC	3.2W

## Code commande





# LU7

## Colonnes Lumineuses



**LED**



**90dB à 1m**  
(Type FB)

**Son Electronique 2**  
(Type FB)

**ø70**

**IP65**

**NPN/PNP**  
Collecteur ouvert



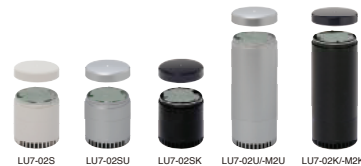
## Colonnes Lumineuses modulaires polyvalentes simple à assembler et à raccorder.

- Verrines à lentilles prismatiques hybrides de PATLITE: Pour une augmentation de la visibilité dans toutes les directions et à toutes les distances.
- Type FB: 2 alarmes sélectionnables avec volume ajustable jusqu'à 90dB à 1m.
- Installation: Montage direct (Montage sur pied en option).
- Bornier à repérage coloré: Couleurs qui correspondent à la couleur des verrines pour une vérification rapide.
- Modules à LED interchangeables: Sans recâblage après installation.
- Verrines: Résine en polycarbonate résistante aux impacts pour une durée de vie supérieure et une meilleure transmission de la lumière.
- Couleurs: Rouge, Orange, Vert, Bleu, Blanc.

### Valable pour commandes spéciales

- Conforme RoHS.
- Boîtier argent.
- Boîtier Noir.
- Version courte LU7-02S: hauteur du module (63mm).

### Module de base



Modèle	Tension Nominale	Alarme / Flash
LU7-02S	24V DC	-
LU7-02	24V DC	-
LU7-02FB	24V DC	2 sons / Flash
LU7-M2	90~250V AC	-
LU7-M2FB	90~250V AC	2 sons / Flash

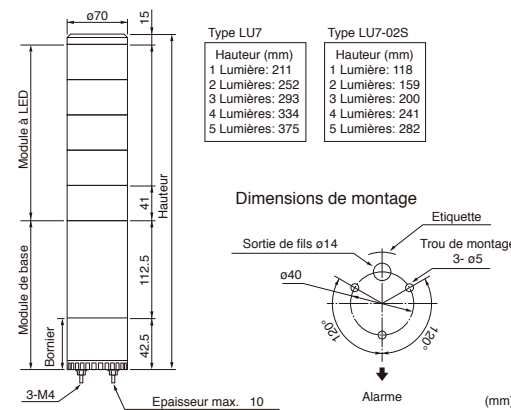
Type FB: Environ 60 flash par minute.

### Modules à LED

Modèle	Couleur
LU7-E-R	Rouge
LU7-E-Y	Orange
LU7-E-G	Vert
LU7-E-B	Bleu
LU7-E-C	Blanc

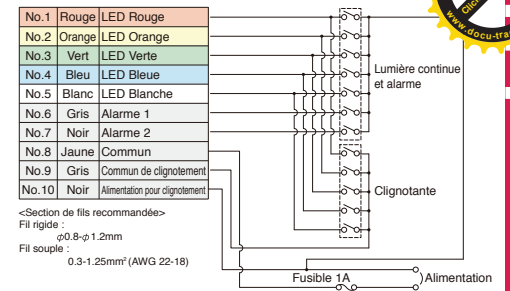


### Dimensions



Type LU7	Type LU7-02S
Hauteur (mm)	Hauteur (mm)
1 Lumières: 211	1 Lumières: 118
2 Lumières: 252	2 Lumières: 159
3 Lumières: 293	3 Lumières: 200
4 Lumières: 334	4 Lumières: 241
5 Lumières: 375	5 Lumières: 282

### Branchement



<Section de fils recommandée>  
Fil rigide : ø0.8-ø1.2mm  
Fil souple : 0.3-1.25mm<sup>2</sup> (AWG 22-18)



Bornier pour un câblage aisé

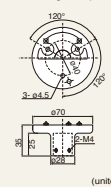
### Options

#### Couppelle supérieure

SZ-50-U



Indispensable pour le montage sur pied.



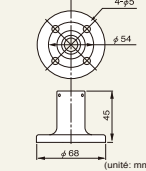
(unité: mm)

#### Embase inférieure

SZ-016A  
(Pour pied de ø21.7mm)

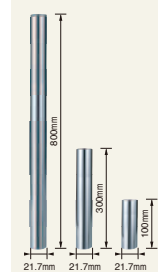


Trou de montage 4-ø5



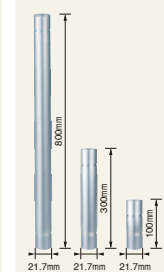
(unité: mm)

#### Tube acier



800mm : POLE-800S21  
300mm : POLE-300S21  
100mm : POLE-100S21

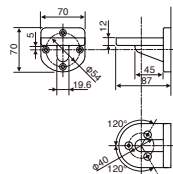
#### Tube aluminium



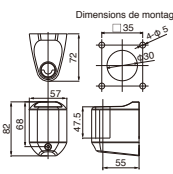
800mm : POLE-800A21  
300mm : POLE-300A21  
100mm : POLE-100A21

#### Fixations murales

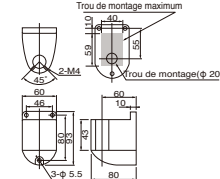
SZ-018



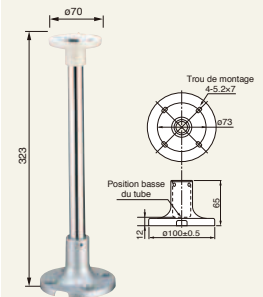
SZ-020  
(Pour pied de ø21.7mm)



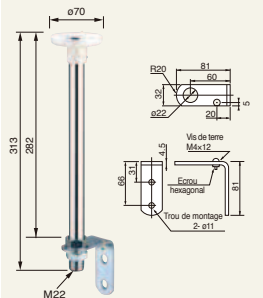
SZ-017  
(Pour pied de ø21.7mm)



SZ-50T



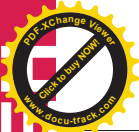
SZ-50L



(unité: mm)

Modules		Modules		Pre-assemblés	
Modèle	Matériaux	Modèle	Matériaux	Modèle	Matériaux
SZ-50-U	ADC12	SZ-70-B	Résine ABS	SZ-50T	ADC12
POLE-□□S21	Acier	SZ-017	ADC12	SZ-50L	ADC12
POLE-□□A21	Aluminium	SZ-020	Résine ABS		
SZ-016A	ADC12				

※ADC12...Aluminium anodisé SPHC...Acier chromé plié EPT...Caoutchouc: éthylène propylène



# LKEH



## Colonne lumineuse avec système d'appel sonore compatible MP3



105dB à 1m\*

MP3 (LKEH-FV)

32 Sons (LKEH-FV)

IP53

NPN Collecteur ouvert



\*Le niveau sonore dépend du type de son.

## Générer un message d'attention par la colonne programmable PATLITE type LKEH grâce à son module sonore hybride.

- Visible d'une grande distance grâce aux LEDs ultra brillante et des lentilles de 100mm de diamètre.
- Résistant lors d'utilisations dans des environnement à fortes vibrations avec une conception robuste 2G résistant aux vibrations.
- Contrôlable facilement avec seulement un fil pour les LEDs et les signaux sonores.
- CE, RoHS, IP53, (UL, c-UL pending).
- Programmation par carte SD (Vendu séparément) (LKEH-FV)  
Capacité de message jusqu'à 64 sec (64kbit/s) sur 5 canaux par entrée simple et 31 canaux par entrée binaire.
- Volume ajustable de 0 à 105dB (à 1m) pour s'adapter à différents types d'environnements.
- Surface de verrine douce.

### Valable pour commandes spéciales

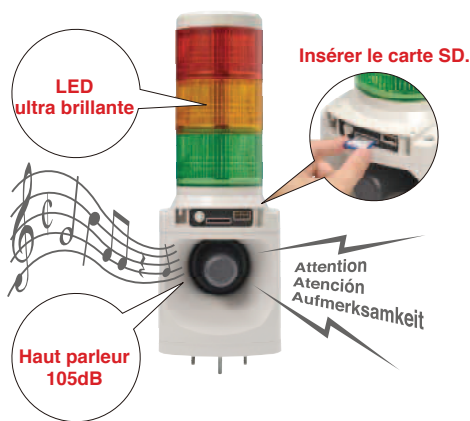
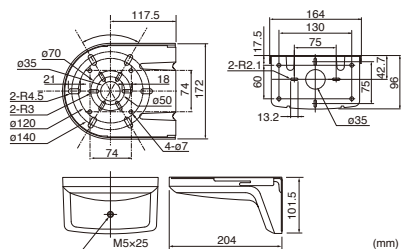
- Transistor PNP collecteur ouvert.

### Options

#### Fixation pour montage mural SZ-023

Fixation: acier (peint)

Couvercle de la fixation: Résine ABS



## Synthétiseur vocal (LKEH-FV)

- Temps d'enregistrement total jusqu'à 64 secondes (64kbit/s) peut être divisé jusqu'à 5 canaux par entrée simple et 31canaux par entrée binaire.

## 32 sons pré-enregistrés (LKEH-FA/FC/FD/FE)

- 32 sons pré-enregistrés. 4 types de sons possible.
- 8 sons peuvent être lus par entrée, soit 32 sons par entrée binaire.

### Type A

Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter (rapid intermittent horn)	Synthesized Melody Chime	Chime	Call sign
Bell (clear highpitched bell)	Fur Elise	Maiden's Prayer	Minuet
Can't Take My Eyes off of You	Top of the World	The Entertainer	Amazing Grace
London Bridge is Falling Down	Holdiridia	Mary Had a Little Lamb	Campdown Races
Kuck kuck	Der Schmied im Walde	On the Bridge of Avignon	Daydream Believer
Amariyllis	Mozart Symphony No. 40	Itsy Bitsy Spider	Ich bin ein Musikante
Jeux Interdits	Katuscha	Grandfather's Clock	Ave Maria

### Type D

Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Runner	Mamotte Agetai	Chime	Call sign
Oribiao Kikinagara	A September	Doyoubino Koibito	Akino Kehai
Saafu Tengoku Suki Tengoku	Iro Howatoburendo	Happy Birthday	Hi Ho
I've been working on the Railroad	Bear Song	Toys Go Cha Cha Cha	Konnako Irukana
Wiegenlied	Rudolph the Red-nosed Reindeer	She Wore a Yellow Ribbon	Oh My Darling Clementine
Yellow Rose of Texas	Yankee Doodle	When the Saints Go Marching in	Londonderry Air

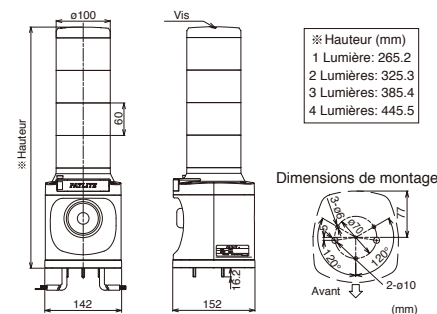
### Type C

Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter (rapid intermittent horn)	Synthesized Melody Chime	Chime	Call sign
Can't Take My Eyes off of You	Top of the World	The Entertainer	Amazing Grace
Amairono Kamino Otome	Les Champs-Elysees	Canon	Rara Sanshain
Uchusenkan Yamato	Oshiete	Makenaide	Gonna Fly Now (Theme for 'Rocky')
I Don't Want to Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi
Gattsuzade	Odoru Ponpokorin	Imasugu Kisu Mi	Truth

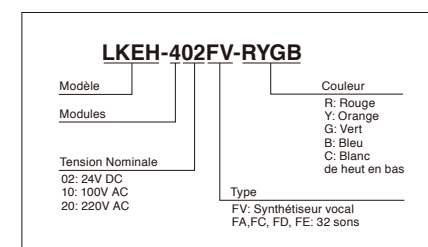
### Type E

Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Inverted Recaille	Annie Laurie
Stutter (rapid intermittent horn)	Synthesized Melody Chime	Galactic Motor	London Bridge is Falling Down
Bell (clear highpitched bell)	Chime	Ringin Phone	Mary Had a Little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Campdown Races
Rapid Hi-Lo	Train Ride	Alarm Clock	Amariyllis
Melody Chime	Galloping Hi-Lo	Ringin Hi-Lo	Mozart Symphony No.40
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria
Synthesized Bell	Falling Crystals	Minuet in G	Grandfather's Clock

## Dimensions



## Code commande



## Type LKEH-FV

		60 flash par minute				
	Modèle	Tension Nominale	Tension	Nombre de modules	Consommation	Poids
	LKEH-102FV	24V DC	24V DC±10%	1	14W	1.8kg
	LKEH-202FV			2	16W	2.0kg
	LKEH-302FV			3	18W	2.2kg
	LKEH-402FV			4	20W	2.4kg
Voice Type	LKEH-110FV	100V AC	100V AC±10%	1	17W	2.5kg
	LKEH-210FV			2	20W	2.7kg
	LKEH-310FV			3	23W	2.9kg
	LKEH-410FV			4	26W	3.1kg
	LKEH-120FV	220V AC	220V AC±10%	1	17W	2.5kg
	LKEH-220FV			2	20W	2.7kg
	LKEH-320FV			3	23W	2.9kg
	LKEH-420FV			4	26W	3.1kg

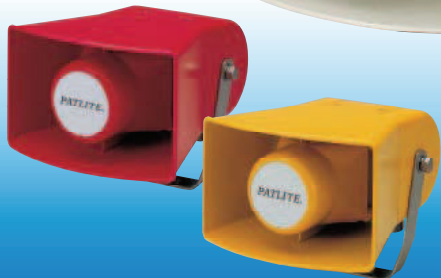
## Type LKEH-F

		60 flash par minute				
	Modèle	Tension Nominale	Tension	Nombre de modules	Consommation	Poids
	LKEH-102FA/FC/FD/FE	24V DC	24V DC±10%	1	10.6W	1.8kg
	LKEH-202FA/FC/FD/FE			2	12.4W	2.0kg
	LKEH-302FA/FC/FD/FE			3	14.2W	2.2kg
	LKEH-402FA/FC/FD/FE			4	16W	2.4kg
Sound Type	LKEH-110FA/FC/FD/FE	100V AC	100V AC±10%	1	17W	2.5kg
	LKEH-210FA/FC/FD/FE			2	20W	2.7kg
	LKEH-310FA/FC/FD/FE			3	23W	2.9kg
	LKEH-410FA/FC/FD/FE			4	26W	3.1kg
	LKEH-120FA/FC/FD/FE	220V AC	220V AC±10%	1	17W	2.5kg
	LKEH-220FA/FC/FD/FE			2	20W	2.7kg
	LKEH-320FA/FC/FD/FE			3	23W	2.9kg
	LKEH-420FA/FC/FD/FE			4	26W	3.1kg



# EWH / EWHS / EW

## Signalisation sonore



12/24V Type

**105dB à 1m**  
(EW-TB: 103dB à 1m)

**32 sons**  
(EW-TB: 4 canaux)

**IP65**  
(IP65 disponible pour commande spéciale)

**NPN Collecteur ouvert**

## Haut parleur à pavillon large jusqu'à 105dB à 1m, pour environnement bruyant.

- 32 sons pré-enregistrés (Type EWH/EWHS).
- Pour une sécurité et une durabilité avancée en environnement de travail.
- Alarme intégrée: Volume ajustable jusqu'à 105dB à 1m par potentiomètre.
- Installation: Intérieur— verticale, à l'envers, de biais; Extérieur— verticale seulement. (Ne pas installer le pavillon vers le haut).
- Installation facile: Fixation de montage en acier inoxydable anti corrosion.
- Compatible NPN: 24V seulement (modèle EWH seulement).
- Conforme CE: 24V AC/DC seulement.
- Disponible: PNP comme commande spéciale.

**Valable pour commandes spéciales**  
• Type PNP collecteur ouvert.

## 32 sons pré-enregistrés (EWH, EWHS)

32 sons pré-enregistrés. 4 types de sons sont disponibles.

Type A			
Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Bell (clear highpitched bell)	Synthesized Melody Chime	Chime	Call sign
Fur Elise	Maiden's Prayer	Minuet	Annie Laurie
London Bridge is Falling Down	Hokkaido	Mary Had a Little Lamb	Campdown Races
Kuck kuck	Der Schindl im Walde	On the Bridge of Avignon	Daydream Believer
Amaryllis	Mozart Symphony No. 40	Itsy Bitsy Spider	Ich bin ein Musikante
Jeux Interdits	Katsusha	Grandfather's Clock	Ave Maria

Type C			
Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Bell (clear highpitched bell)	Synthesized Melody Chime	Chime	Call sign
Can't Take My Eyes off of You	Top of the World	The Entertainer	Amazing Grace
Amarono Kamino Otome	Les Champs-Elysees	Canon	Rara Sanshain
Uchusenken Yamato	Oshiete	Makenaide	Gonsu Kyu (There to 'Toby)
I Don't Want to Miss a Thing	Yozorano Mukouin	Aiwa Katsui	Hanuyo Koi
Gattusdaze	Odoru Pomokokin	Imasugu Kisu Mi	Truth

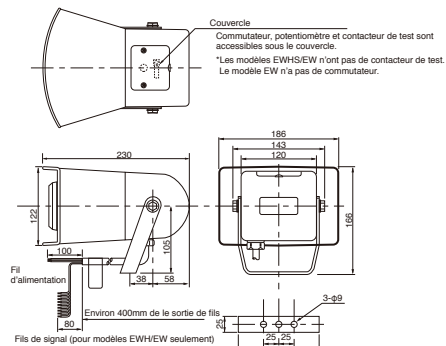
Type D			
Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Runner	Mamotte Ageata	Chime	Call sign
Oribiao Kikinagara	A September	Doyoubino Kobito	Akino Kehai
Saiki Terego Saki Terego	Iro Howaitoburendo	Happy Birthday	Hi Ho
I've been working on the Railroad	Bear Song	Toys Go Cha Cha Cha	Konnako Irukanu
Wageningen	Rudolph the Red-nosed Reindeer	She Wore a Yellow Ribbon	Oh My Darling Clementine
Yellow Rose of Texas	Yankee Doodle	When the Saints Go Marching In	Londonerry Air

Type E			
Beep (slow intermittent horn)	Stutter (rapid intermittent horn)	Inverted Recelille	Annie Laurie
Rapid Hi-Lo	Melody Chime	Galactic Motor	London Bridge is Falling Down
Bell (clear highpitched bell)	Synthesized Melody Chime	Ringing Phone	Mary Had a Little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Campdown Races
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis
Melody Chime	Galloping Hi-Lo	Ringing Hi-Lo	Mozart Symphony No.40
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria
Synthesized Bell	Falling Crystals	Minuet in G	Grandfather's Clock

## 4 alarmes (EW-TB)

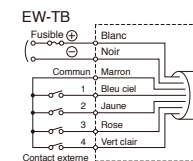
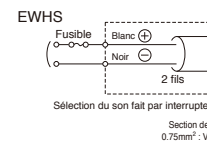
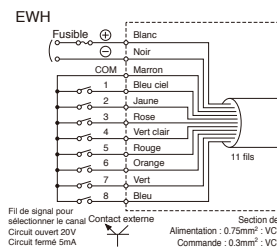
ch	1	2	3	4
EW-TB	Stutter	Chime	Beep	Yelp

## Dimensions



**Contacteur de test** (pour modèle EWH seulement)  
Le contacteur est situé sous le couvercle et permet d'effectuer un test d'écoute et d'ajuster le volume.

## Branchement



### Fusible de protection (EWH/EWHS)

Modèle	Tension Nominale	Fusible
EWH-24/EWHS-24	12-24V	1A (Anti-rush)
EWH-48/EWHS-48	48V	1A (Normal)
EWH-100/EWHS-100	100V	1A (Normal)
EWH-200/EWHS-200	200V	1A (Normal)

### Caractéristique des fusibles (EW)

Modèle	Tension Nominale	Fusible
EW-24TB	24V	0.5A
EW-100TB	100V	0.3A
EW-220TB	220V	0.15A

### Priorité de canaux (pour le modèle EWH)

9 (Bleu) > 7 (Vert) > 8 (Orange) > 9 (Rouge) > 4 (Vert clair) > 3 (Rose) > 2 (Jaune) > 1 (Bleu ciel)  
Note: Le nombre plus grand a la priorité quand des canaux sont activés simultanément.  
Les symboles de polarités sont pour les modèles EWH et EWHS 12/24V DC et 48V DC.

### Priorité des canaux (pour le EW)

4 (Vert clair) > 3 (Rose) > 2 (Jaune) > 1 (Bleu ciel)  
Le nombre plus grand a la priorité quand des canaux sont activés simultanément.

## Type EWH / EWHS / EW

	Modèle	Tension Nominale	Tension d'alimentation	Consommation	Volume	Capacité sortie contact	Température d'utilisation	Entrée auxiliaire	Canal	Indice Protection	Poids
EWH	EWH-24	12/24V AC/DC	8V~28V AC/9V~35V DC	8W	Max. 105dB à 1m	EW: Plus de 10mA EWH/EWHS: Plus de 5A	-20°C~+60°C Humidité 85% ou moins.	EWH: Contact sans potentiel 8/1 impulsion 32/binaire	8/1 impulsion 32/binaire	IP53 IP65*	1.2kg
	EWH-48	48V DC	35V~60V DC	10W							1.4kg
	EWH-100	100V AC	90V~132V AC	12W							1.2kg
	EWH-200	200V AC	180V~260V AC	13W							1.4kg
EWHS	EWH-24	12/24V AC/DC	8V~28V AC/9V~35V DC	8W	Max. 103dB à 1m	EW: Plus de 10mA EWH/EWHS: Plus de 5A	-20°C~+60°C Humidité 85% ou moins.	EWH: Contact avec potentiel	1	IP53 IP65*	1.2kg
	EWHS-48	48V DC	35V~60V DC	10W							1.4kg
	EWHS-100	100V AC	90V~132V AC	12W							1.2kg
EW	EW-24TB	24V AC/DC	20V~26V AC/20V~28V DC	5.5W	Max. 103dB à 1m	EW: Plus de 10mA EWH/EWHS: Plus de 5A	-20°C~+60°C Humidité 85% ou moins.	Contact sans potentiel 4/1 impulsion	4	IP53 IP65*	1.4kg
	EW-100TB	100V AC	90V~110V AC	5W							1.2kg
	EW-220TB	220V AC	180V~240V AC	5W							1.4kg

\* Pour commandes spéciales



# WD

## Wireless Data Acquisition System

### Wireless LED Signal Towers for Data Acquisition and Remote Monitoring



IEEE802.15.4  
2.4GHz



# AirGRID

## Data Acquisition and Remote Monitoring via Wireless Network of PATLITE Signal Towers

PATLITE wireless add-on modules and receivers make PATLITE signal towers capable of sending electrical signals over a wireless network to a data center. PATLITE's unique wireless add-on modules and receivers are a practical and economical solution for data acquisition, machine status remote monitoring, and supervisory control of industrial processes. The AirGRID is an effective solution for lean manufacturing and the visual factory. PATLITE wireless add-on modules comply with IEEE802.15.4, operating in the 2.4 GHz band.

### 1) Simply add to a PATLITE signal tower

Operating conditions of Patlite signal towers installed on production machines or process systems can be transmitted wirelessly to a data center. Data acquisition and remote monitoring are possible instantly and economically.

### 2) Wireless technology eliminates tedious wire installation

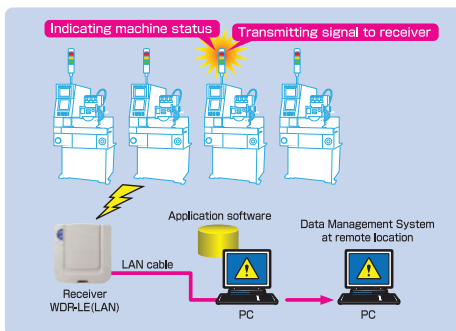
Wireless add-on modules source power from PATLITE signal towers and transmit electrical signals to the data center. Therefore wiring, component installation and related costs are minimal.

### 3) Multi-hopping topology and high transmitting reliability

With wireless multi-hopping topology, which can minimize potential transmitting failures or errors, a high level of stable operation and transmitting reliability are expected.

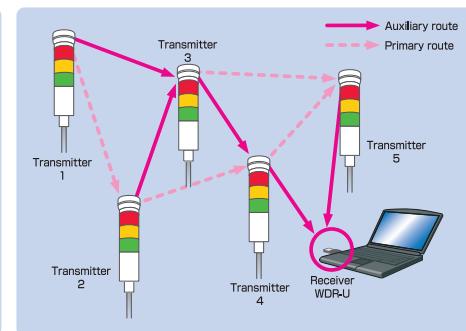
### Typical Application

Multiple stand-alone machines can be networked by the AirGrid for data archiving and remote monitoring. The status and condition of the machines are indicated by the PATLITE signal towers.



### Wireless Concept IEEE 802.15.4 2.4GHz

- Wireless hopping/routing functions and mesh topology can make flexible and reliable wireless network configurations possible.
- Data archived by the AirGRID is stored in a file format CSV which any off-the-shelf data management software e.g. SCADA can handle.



## Specifications

### Transmitters

	WDT-6M	WDT-5E
Model		
Applicable Signal Tower	LME series	LE series (24VDC only)
Rated Voltage	24VDC no polarity	
Voltage Range	20.4VDC ~ 26.4VDC	
Current Consumption	35mA	
Operating Temperature	-10°C ~ 60°C (No condensation)	
Environment Humidity	85% RH or less	
Environment Temperature	-20°C ~ 70°C (No freezing)	
Installation	Upright position (indoor use only)	
IP Protection	Determined by PATLITE signal towers	
Dimension	φ 65xheight 36.9mm	φ 65xheight 38.5mm
Mass	55 g	

(\*1) Ask PATLITE sales representatives for specific models of PATLITE signal towers which are compatible with the WDT-6M and WDT-5E.

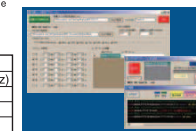
### Features

Wireless Standard	IEEE 802.15.4
Frequency Band	2400MHz-2483.5MHz (16 channels by 5MHz step from 2405MHz)
Installation	up to 20 units (*1)
Wireless Output	Max. 1mW
Compliance	FCC, R&TTE, CE(*2), RoHS

(\*1) Numbers of units to install are determined by wireless environment and installation location.  
(\*2) Conforms to the CE requirements.

### Receivers

	WDR-LE (LAN)	WDR-U (USB)
Model		
Rated Voltage	24VDC (Power supply not included)	5VDC (with USB bus power)
Voltage Range	20.4VDC~26.4VDC	4.5VDC~5.5VDC
Current Consumption	150mA	80mA
Operating Temperature	-10°C ~ 60°C (No condensation)	5°C ~ 40°C (No condensation)
Environment Humidity	85% RH or less	85% RH or less
Environment Temperature	-20°C ~ 70°C (No freezing)	-5°C ~ 50°C (No condensation)
Installation	horizontal, wall mount (indoor use only)	USB port of PC (no USB hub) (indoor use only)
IP Protection	IP20	—
Dimension	height 131mm x width 125mm x deep 38.5mm	height 11mm x width 28.5mm x deep 66.5mm
Mass	165g	15g



### Application software (supplied free) WDS-AE

The software WDS-AE stores data which the WDR-LE/U receives from WDT-6M/5E in the file format of CSV.

**\*This product operates on a frequency in compliance to FCC laws in the United States and its territories. Radio Laws for individual countries vary, and it is, therefore, the responsibility of the customer to comply with the laws in the country which applies to the application. Our company takes no responsibility directly, or indirectly, for claims from a customer or third party regarding Radio Laws or Wireless ordinance.**

