35mA LME<sub>Series</sub>\*1 30units<sup>1</sup> 30m\*

Network Connection Condition



bracket. (Some applications don' t require

Affix the transmitter adaptor 🙆 on the Signal ower and fasten it with the center screw. hen simply attach the transmitter 

to the

additional wiring.)

20<sub>mA</sub>

Signal Tower LE Transmitter

30units<sup>1</sup> 30m<sup>2</sup>

Open Price

Stationary Reciever

Open Price

Connection Type Current Consumptio LAN/USB 65mA

Multiple Units

- The radio reception depends on the environment and installed location. 20 units represents the recommended number of links.
- Multiple LAN connections can be simultaneously linked. (Please inquire for more details)

# General Specifications

Item	Specifications	
Model Name	WDT-6M-Z2 WDT-5E-Z2	
Corresponding Signal Tower	LME Series	LE Series
Rated Voltage	DC24V (Non-polar)	
Operating Voltage Range	DC21.6V - DC26.4V	
Current Consumption	20mA ±10mA	
Operating Temperature Range	-10 to 60°C	
Relative Humidity	RH 85% or less (No Condensation)	
Storage Temperature Range	-20 to 70°C (No Freezing)	
Mounting Direction (Indoor Only)	Upright Only	
Protection Rating	Conforms to installed Signal Tower	
Mass	52g±5g	

### **■** Wireless Specification

Item	Specifications	
Wireless Communication Standard	IEEE 802.15.4	
Wireless Communication Frequency	2405MHz - 2480MHz (16 Channels)	
Wireless Transmission Method	Direct Spread (DS-SS*1) System	
Wireless Transmission Standard	ZigBee2007 Conformity ZigbeePRO Stack Loading (Unique Profile Implementation)	
Wireless Transmission Speed	Maximum Theoretical Speed of 250k-bps*2	
Wireless Transmission Output	Maximum 3 mW (From Antenna Source)	
Radio Frequency Range*3	Direct Sight of about 60m (Reference Value)	
Number of Relays	Maximum 30 Relays	
Compliances	North America: FCC, UL (For WDT) Europe: RoHS, CE Japan: Radio law, Electrical Appliance and Material Safety Law (WDR-LE-Z2)	

As shown in the following figure, always supply power from one open signal line to be used as the power supply. (The example shows the white signal line as a supply for power)

%1 Be sure to consult with, or hire a professional contractor when wiring is required.

General Specifications

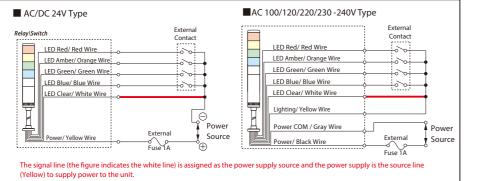
Item	Specifications	
Model Name	WDR-LE-Z2	
Rated Voltage	DC24V (AC Adaptor Included *)	
Operating Voltage Range	DC21.6V - DC26.4V	
Current Consumption	65mA ±15mA	
AC Adaptor Rating *	AC100V	
AC Adaptor Voltage Tolerance *	AC90V - AC110V	
Operating Temperature Range	-10 - 60°C 0 - 40°C (When AC Adaptor is used)	
Relative Humidity	No more than 85% RH (No condensation)	
Storage Temperature Range	-20 - 70°C -10 - 70°C (When AC Adaptor is used) (No Freezing)	
Mounting Direction (Indoor Only)	Upright (Wall Mount) or Sideways (Level Surface Mounting) for Indoors Only	
Protection Rating	IP20	
Mass	170g ±10g	
	•	

#### Function

Item		Specifications	
Model Name		WDR-LE-Z2	
Transmission	ETHERNET	10BASE-T/100BASE-TX (Full/Half Duplex)	
	USB	USB1.1/USB2.0 (Supports Full-speed) * Not supported for USB Hub connections	
Output Specification		Non-voltage Contact: 1 Output (DC24V 500mA) Connection	

- \*1 : DS-SS = Direct Sequence-Spread Spectrum
- \*2 : The radio transmission is dependent upon the environment and installed location.
- \*3: The radio transmission is dependent upon the environment, installed location and number of communications.

## **■** Wiring Diagram



# **PATLITE** Corporation

4-4-25, Hommachi, Chuo-ku, Osaka-shi, 541-0053 Japan International Sales Division TEL: +81-6-7711-8953 FAX: +81-6-7711-8961 E-mail: overseas@patlite.co.jp

PATLITE (U.S.A.) Corporation 20130 S. Western Ave. Torrance, CA 90501, U.S.A. TEL: +1-310-328-3222 FAX: +1-310-328-2676 E-mail: sales@patlite.com

PATLITE (SINGAPORE) PTE LTD TEL: +65-6226-1111 FAX: +65-6324-1411 E-mail: sales@patlite.com.sg

PATLITE (CHINA) Corporation Room 1102-1103, No.55, Lane 777, Guangzhong Road (West), ZhabeiDistrict, Shanghai, China 200072 TEL: +86-21-6630-8969 FAX: +86-21-6630-8938 E-mail: sales@patlite.cn

TEL.+49 -811 9981 9770-0 FAX.+49-811 9981 9770-9 E-mail: info@patlite.eu

**PATLITE Europe GmbH** 

PATLITE KOREA CO., LTD. A-2603, Daesung D-POLIS, 606, Seobusaet-gil, Geumcheon-gu, Seoul, 08504, Korea TEL.+82-2-523-6636 FAX.+82-2-861-9919 E-mail:sales@patlite.co.kr

PATLITE TAIWAN CO., LTD.

TEL.+886-(0)2-2555-1611 FAX.+886-(0)2-2555-1621 E-mail: info@patlite.tw

PATLITE, the PATLITE logo are either registered trademarks or trademarks of PATLITE Corporation in JAPAN and/or other countries.

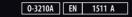
# **↑** CAUTION

PATLITIE

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.





# Just attach it to a Signal Tower!!

## It transfers information wirelessly!!



For easy attachment, just remove the Signal-Tower top cap and fixing screw and re-assemble it with the adaptor.



Can store logged data!!

Add communication to the factory floor!

automatically as CSV

Increases Manufacturing Efficiency!

Improve the environment with data results!

**Operations Monitor Production Monitor** 

# ANDON Monitoring Software

Monitor information from all inside the factory

Up to 10 Monitors can be connected via LAN Hub or Wireless/LAN Router

# Wireless Transmission



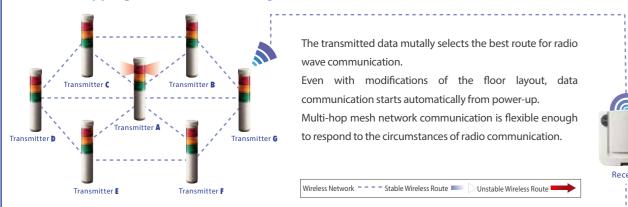


ANDON Monitoring Software (plus Viewer Software) WDS-AS1 (+Viewer)

# **■** Wireless Communications System

For LME Model Only

# ■ Multihopping wireless networking for accurate and reliable communication



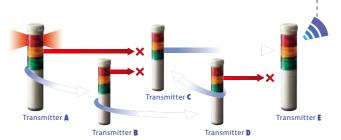
The transmitted data mutally selects the best route for radio

Even with modifications of the floor layout, data communication starts automatically from power-up. Multi-hop mesh network communication is flexible enough to respond to the circumstances of radio communication.



## AutomaticRouting function selects optimum communication

This product doesn't need complicated wireless or network settings, the automatic selection for a good route to carry data communication is done as soon as the power source is connected. In addition, when an obstacle impares the data transmission of the wireless communication, the transmitter automatically searches for a different route to re-connect.

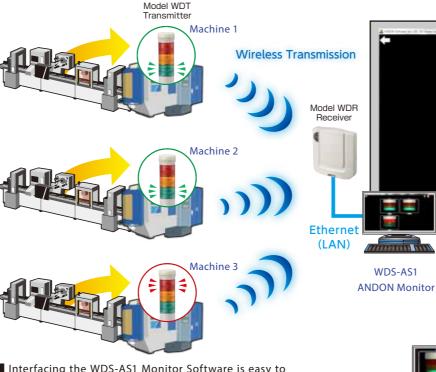


#### **ANDON Monitoring Software (plus Viewer Software)**

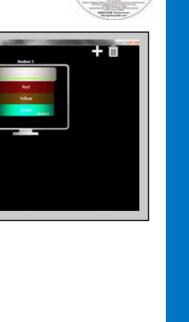
# (+Viewer) Free Software!!

Signal Tower

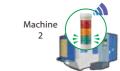
Monitor information from all equipment anywhere in the factory.



- Interfacing the WDS-AS1 Monitor Software is easy to set up to get all the information of signal towers.
- Focus on the important data from the factory lines.









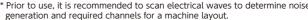




Information needs to be gathered for a factory line, but it involves time and immensive expenses.



Layout changes with extensive re-wiring work for equipment can be omitted with the use of wireless.







Just by attaching to a Signal Tower, data can be collected from all of the equipment. This makes system configuration simple.

equipment is intermingled, making the total system

\* Easy attachment only requires the removal of the Signal-Tower top cap and fixing screw and re-assembly of it. Power is supplied by one of the unused signal wires for the transmitte

New equipment, old equipment, and various manufactured







configuration difficult.











The actual production and progress ratio needs to be calculated, but the introductory price of a new acquisition system is high.



A new system introduction for wireless communication is available at a lower cost.

