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SPECIFI	<u>CATIONS</u>		
	()		
Produc	t Name :		
Wireless Data A	cquisition System		
WD PRC) Receiver		
Model · WDR-I	_(E)-Z2-PRO(-L)		

PATLITE Corporation

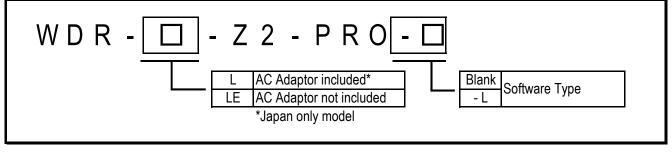
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1. Product Overview

This product receives the data sent from the "Wireless Data Acquisition Transmitter", centrally manages it, and outputs the received data to the host side. Since this product supports PoE power reception, it can be installed without worrying about power supply construction.

2. Model

2.1. Model Number Configuration



2.2. Model Number List

WDR-L-Z2-PRO WDR-L-Z2-PRO-L WDR-LE-Z2-PRO WDR-LE-Z2-PRO-L

3. General Specifications

3.1. General Specifications

	Mode		WDR-L-Z2-PRO(-L)	WDR-LE-Z2-PRO(-L)
Power Terminal Block DC Jack			24V	DC
Voltage		Power Supply	48V DC	
voltage	USE	3 bus power	5V DC	
		essory AC	100V AC to 240V AC 50/60Hz	-
Rated	Power Terminal Block DC Jack		21.6V DC to	o 26.4V DC
	PoE F	Power Supply	43V DC to	o 57V DC
Voltage	USE	3 bus power	4.75V DC to 5.25V DC	
	Accessory AC		90V AC to 264V AC -	
Rated Cu	rrent	Тур.	100mA(24V DC) 70mA(PoE:48V DC) 300mA(USB:5V DC)	
Consump		Max	150mA(24V DC) 100mA(PoE:48V DC) 500mA(USB:5V DC)	
Rated Po	ower	Тур.	3.0W(AC Adaptor:100V AC)	-
Consump		Max	4.5W(AC Adaptor:100V AC)	-
		Terminal Block	Screwless Terminal Block (φ0.5	· · · · · · · · · · · · · · · · · · ·
Power	DC Jack		DC Jack for	AC Adaptor
Input USB		USB	USB Type-B (USB bus power)	
LAN(PoE)		AN(PoE)	RJ-45 connector (IEEE8	02.3af Class0 compliant)
Remark		k		

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3.1. General Specifications (continued)			
Model		WDR-L-Z2-PRO(-L)	WDR-LE-Z2-PRO(-L)
Operating	Body	-10°C to 50°C	
Ambient	Accessory AC	0°C to 40°C	
Temperature	Adaptor		-
Operating Am	bient Humidity	85%RH or less(I	No Condensation)
Strage	Body	-20°C t	to 60°C
Ambient	Accessory	-10°C to 70°C	
Temperature	AC Adaptor		-
Strage Ambi	ent Humidity	85%RH or less(I	No Condensation)
Mounting	Location	Indoo	r Only
Mounting	Direction	Horizontal installation, Wall	mounting, Celling mounting
Protectio	on Rating	IP20	
Ma	ass	300g ±10% (except AC Adaptor accessory)	
Outer Dir	mensions	Refer to the Outer Dimension Drawing	
Status	Lamp	Status display LED x4	
Operatio	n Button	Setting DIP switch x1, Maintenance DIP switch x1, Reset switch x1	
٨٥٥٩٢	sories	Cable tie x1, Cal	ble fixing plate x1
AUCES	501165	AC Adaptor x1	-
			Japan, United States, Canada
Supported Count	ries and Regions	Japan only	Europe, China, Thailand, Vietnam
*	*1	Sapan only	Korea, Taiwan, Philippines, Singapore
			Malaysia,Mexico
	*1 Do not use outsides of supported countries and regions.		
Don	nark	Failure to do so may come into conflict	with the law.
nen	IIGIN		

3.1. General Specifications (continued)

3.2. Conformity Standards

WDR-L-Z2-PRO(-L) WDR-LE-Z2-PRO(-L) Common Conformity Standards	Japan Radio Law (ARIB STD-T66 Conformity) FCC Part 15 Subpart B Class A, Subpart C EN62368-1, EN55032(Class A), EN55035, EN300 328, EN62479 EN61000-3-2, EN61000-3-3, EN301 489-1, EN IEC 63000
WDR-LE-Z2-PRO(-L) Conformity Standards	UL 62368-1, CAN/CSA C22.2 No.62368-1-14 RSS-247 Issue2, ICES-003(Class A) NBTC TS 1035-2562 NCC KN32,KN35,KN301 489-1/-17 MCMC MTSFB TC T007:2014 UL60950-1,CAN/CSA X22.2 No.60950-1-07 NOM-208-SCFI-2016,IFT-008-2015 MEMORANDUM CIRCULAR No.03-05-2007 MEMORANDUM CIRCULAR No.01-02-2020
Remark	 Conforms to the CE Requirements UL/cUL Listed (File No.E480103) *Only WDR-LE-Z2-PRO(-L)

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4. Communication Specifications

4.1. Wireless Communication Specifications

Connectable Transmitter	WDT-4LR-Z2、WDT-5LR-Z2、WDT-6LR-Z2、WDT-6LR-Z2-PRO、 WDT-5E-Z2、WDT-6M-Z2 (Mixed use is possible)	
Wireless Standard	IEEE 802.15.4 compliant	
Communication Frequency	2405MHz to 2480MHz (16 channels)	
Transmission Method	Direct-Sequence Spread Spectrum (DSSS)	
Communication Method	ZigBee compliant	
Number of Transmitter	30 units MAX *1	
Transmit Power	3mW MAX (at the antenna feed point)	
Communication Range	Line of sight, Approximately 30m (reference value) *1	
Remark	*1 It depends on the installation location and communication environment depending on the characteristics of the radio wave.	

4.2. Interface Specifications

Network Communication Method	Ethernet IEEE 802.3 compliant
	10BASE-T/100BASE-TX/1000BASE-T (Auto-MDI/MDIX)
USB Connection	USB Type-B USB1.1/USB2.0 (Full Speed)
Remark	
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5. Function Specifications

5.1 Data	Acquisition	Specifications
D. I. Dala	Acquisition	Specifications

	Data Acquisition Specification Model	WDR-L(E)-Z2-PRO	WDR-L(E)-Z2-PRO-L
Transmitter Linkage Function Communicate with WD wireless network transm		transmitter and collect incoming data.	
Host	Communication Function	Connect to the host via LAN or USB, and	l output the collected data to the host. *1
	LAN Communication	to the host side simultaneously via LAN c	Modbus/TCP Linkage can be used to link communication.
	Database Communication	Send the data collected from the transmitter to the database.	
	Connectable Database SQL Command	MySQL 5.6 or later INSERT, UPDATE	-
	Number of Connectable Database	1	
	Socket Communication	Data collected from the transmitter is out (WDR-PRO Protocol, WDR Protocol)	put to the host via socket communication.
	WDR-PRO Protocol	communication method that simplifies traditional protocols and supports multiple	-
	Connectable number	2	
	WDR Protocol	Communication method compatible with	WDR-L(E)-Z2
	Connectable number	1	1
	Modbus/TCP Communication	It operates as a Modbus slave and sends collected data in response to data acquisition requests from the Modbus master.	-
	Connectable number	1	
	Cloud Communication	Data acquisition and transmitter control are available using cloud services.	-
	Data Acquisition	The data acquired from the transmitters can be uploaded to the cloud.	-
	Transmitter Control	The signal light with the transmitter can be controlled from the cloud.	-
	Supported Cloud Service	Siemens MindSphere ³	-
	Supported Protocol	HTTPS	-
	USB Communication	Data collected from the transmitter is out	put to the host via USB communication.
	Corresponding application	WDS-WIN01 *2	
 *1 When using a USB connection, the USB communication link has priority. When using the Cloud Communication, the LAN Communication is not available *2 Link with WDS-WIN01 via socket communication or USB communication. When using the Cloud Communication, the Data Acquisition is not available. *3 MindSphere's base IoT platform is supported by Microsoft Azure, Amazon AWS and Ali •MindSphere is a trademark or registered trademark of Siemens AG. •Microsoft Azure is a trademark or registered trademark of Microsoft Corporation in the States and/or other countries. •Amazon and AWS are trademarks of Amazon.com, Inc. or its affiliates in the United and/or other countries. •Alibaba Cloud is a registered trade marks or trade marks of Alibaba Group Holding I various jurisdictions. 		LAN Communication is not available. ation or USB communication. Data Acquisition is not available. Microsoft Azure, Amazon AWS and Alibaba Cloud mark of Siemens AG. Idemark of Microsoft Corporation in the United	
		•Alibaba Cloud is a registered trade marks or tra	de marks of Alibaba Group Holding Limited in

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5.2 Setting specifications				
WDR-L(E)-Z2-PRO	WDR-L(E)-Z2-PRO-L			
The main unit can be set by browser access *1.				
The first time accessing the site, a username and password can be registered *2.				
Network settings such as IP address are possible. It is possible to select whether to set manually or obtain automatically by DHCP.				
Username and password to login in to the setting screen can be set.				
Wireless settings for the main unit and				
Transmitter operation settings are possible. *3	-			
The database that sends the collected data can be set.	-			
Modbus / TCP linkage can be set.	-			
The port number of the main unit can be	set when using socket communication.			
Cloud connectivity can be set up.	-			
The time of the main unit can be set.				
The time of the main unit is corrected by communicating with the NTP server. The time can be set using the time of the computer used for login.				
The firmware of the main unit can be updated.				
The firmware of the main unit can be updated using a browser.				
Browser communication method can be set to [HTTP] or [HTTPS]				
The settings of the main unit can be initialized by browser or switch operation.				
Japanese, English, Simplified Chinese				
 *1 Supported browser are Google Chrome, *2 Setting up the unit is possible by registe *3 Some functions of WDT-6LR-Z2-PRO ca 	ring a user name and password.			
	The main unit can be set by browser accord The first time accessing the site, a usernal Network settings such as IP address are It is possible to select whether to set mar Username and password to login in to the Wireless settings for the main unit and transmitter are possible. Transmitter operation settings are possible. *3 The database that sends the collected data can be set. Modbus / TCP linkage can be set. The port number of the main unit can be Cloud connectivity can be set up. The time of the main unit is corrected by The time of the main unit is corrected by The time of the main unit can be set. The firmware of the main unit can be upd Browser communication method can be set The settings of the main unit can be initia Japanese, English, Simplified Chinese *1 Supported browser are Google Chrome, *2 Setting up the unit is possible by registe			

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5.3 Maintenance S Mode		WDR-L(E)-Z2-PRO	WDR-L(E)-Z2-PRO-L	
Self-diagnosis Fun	If-diagnosis Function Diagnosis of the wireless environment of the WD network is possible.		the WD network is possible.	
	Setting Confirmation	Displays a list of transmitter wireless settings and operation settings in a browser. A file containing a list of wireless settings and operation settings for the main unit and transmitter can be downloaded using a browser.	-	
System Diagnosis	Wireless	The current wireless quality of each trans diagnosed. *1		
	Wireless Quality Diagnosis	The communication quality with each transmitter can be continuously diagnosed. Diagnostic interval : 10 minutes Diagnosis period : 72 hours MAX		
		Diagnosis results can be checked on the browser screen or downloaded to a file.		
	Transmitter Call	The transmitter indicator can blink blue.		
Status Check Fund	atus Check Function The current status of the signal light with the transmitter is displayed in the browser. Displays the lighting / flashing / off			
Displayable Information		status of the signal light to which the transmitter is attached, the buzzer sounding / stopping status, and the wireless connection status.	-	
Number of Display		30 units MAX *2		
	odate Interval	about 8 seconds		
Status Display Function The status of the main unit is displayed with the status lamp on the main u		vith the status lamp on the main unit.		
Display Sta	te ERROR STATUS ACTIVE	Lights when power is supplied to the main unit. Lights or blinks when there is something wrong with the unit. Lights as various status displays. Lights intermittently during wireless communication.		
*1 The diagnostic results obtained with this function are predictions and do not gu the wireless communication quality with the transmitter. *2 Only transmitters that are wirelessly connected to this product can be displayed transmitters that are connected to other receivers cannot be displayed.		nction are predictions and do not guarantee transmitter. cted to this product can be displayed, and		

5.3 Maintenance Specifications

[Handling Precaution]

About handling this product

• This product (including software) is shipped only after undergoing strict quality controls and inspections. However, should you encounter any issues, please contact your PATLITE sales representative.

• This product (including software) is developed, designed and manufactured for general usage, such as office use, personal use, standard industry, and other related systems. Do not use, either directly or indirectly, in applications where a high level of safety is required, such as medical equipment or where human life is involved. We shall not be held liable for any damages or losses, nor be held responsible for any claims by a third party, as a result of using this product.

• The suitability of this product in the system, with other machines and equipment, shall be tested and confirmed by the customer. We assume no responsibility regarding this. Design safety into the system to cope with misoperation, misuse, going offline, and other unforeseen operation of this product.

• We bear no responsibility for damages, lost opportunities, lost profits, compensation for accidents, or other costs including but not limited to personnel, construction, transportation, and shipping costs, related to using this product. We bear no responsibility for defects in other products, regardless of the other product's connection to this product (such as a communication line), or for the cost of repairing damages, losses, defects, or recovering lost data related to using the other products, including but not limited to personnel, construction, and shipping costs.

• To improve the functionality in the software for this product, we will update the software at our own discretion. We bear no responsibility for the results of software updates, such as damages, lost opportunities, lost profits, compensation for accidents, or other costs including but not limited to personnel, construction, transportation, and shipping costs, related to using this product. We bear no responsibility for defects in other products, regardless of the other product's connection to this product (such as a communication line), or for the cost of repairing damages, losses, defects, or recovering lost data related to using other products, including but not limited to personnel, construction, transportation of the personnel, construction, transportation, and shipping costs.

• Note the following statements regarding the software for this product, which require prior written consent from PATLITE:

* Do not duplicate the software for this product.

- * Do not alter, combine, reverse-engineer, decompile, or disassemble the software for this product.
- * Do not license, rent, or resell the software for this product to a third party.
- * Do not store the software of this product on a network so it can be transmitted to a third party.
- * Do not remove the copyright notice or other trademark and company rights attached to the software for this product.

Things you should always do for your safety

Do not disassemble or modify the product. Failure to do so may lead to product malfunction or cause fire or electrocution.

• Be sure to use the included AC adapter or the AC adapter specified by the company to supply power to this product. If you use other AC adapter or other power source, it may cause fire or malfunction.

• Do not allow the voltage to exceed the specified voltage tolerance.

- Do not touch the electric socket with wet hands. It may result in electric shock.

• Avoid spilling liquids (such as water or chemicals) into this product. Avoid dropping foreign metallic objects (such as copper wire) into this product. Failure to follow these instructions could result in electric shock or equipment damage.

- Do not drop or hit this product. Failure to follow these instructions could result in electric shock or equipment damage.
- By allowing dust to adhere to the power receptical, it can be the result of fire or failure from short-circuiting.

• Do not pull strongly the cable to be connected, including the AC adapter's power cable, or use damaged cable. It becomes a disconnection or a short circuit, and this product or connected equipment may be broken or it may cause ignition.

• Do not multi-outlet extension cord. Fire may occur.

• Do not apply too much force to switches and buttons on this product. Failure to follow this instruction could result in equipment damage.

Installation

• Turn off the power when wiring, inspecting, or repairing this product. Failure to follow this instruction could result in equipment damage.

• Do not install in locations near fire, or environments with high temperature and humidity. Do not install this product where corrosive or flammable gas is present.

• Do not install on an unstable surface. Failure to follow these instructions could result in injury or equipment damage.

This product is rated for indoor use only. Please install and use this product indoors only.

Avoid the following locations for installation of this product.

* Places exposed to direct sunlight.

- * Places near fire or environments with high temperatures and humidity.
 * Environments where temperature changes are severe, and where there is condensation.
- * Environments with poor breathability and ventilation.
- * Places where external vibrations are directly transmitted to this product.
- * Environments where corrosive gas is present.
- * Locations exposed to salty sea air.
- * Locations near strong magnetic fields.
- * Environments where there is dust, iron powder, and so on.
- * Environments where chemicals and oil mist are present.

About maintenance

• Do not clean this product with volatile chemicals such as benzine or thinners, or with chemical wiping cloths as it could damage the product.

• Please clean this product with a soft, dry cloth.

• If the dry cloth is unable to clean off any dirt and grime, wipe the product firmly with a slightly water-moistened cloth.

