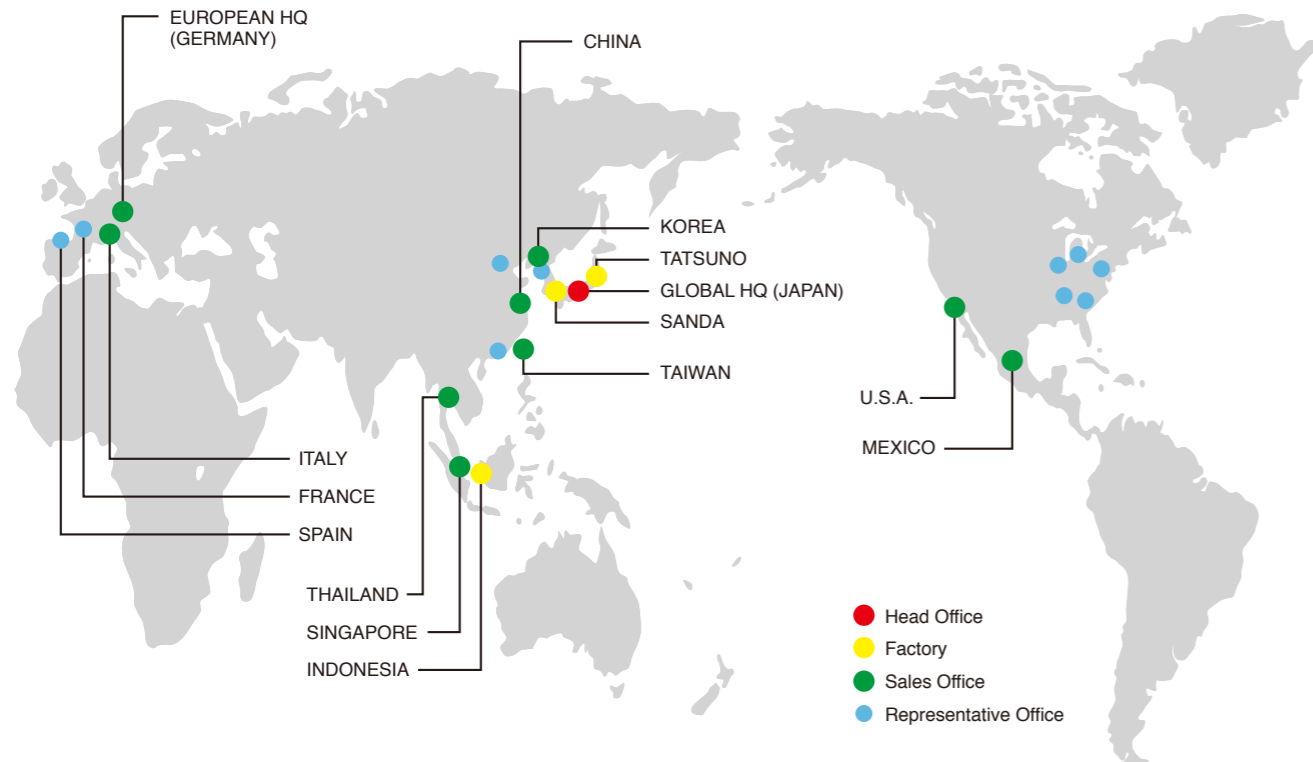


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PATLITE®

Wireless Data Acquisition System
WD PRO

New

Smarter Remote Monitoring and Control

Gather and analyze more data in real-time to make smarter, data-driven decisions



Effective Local Status Indication

Reliable visual and audible signals
with a built-in counting feature

Visualize More Data Points

Equipped with 8 contact inputs enabling acquisition
of up to 255 data codes

Acquire Additional Levels of Information

Features a serial communication interface
to attach devices, such as a barcode reader

Improve Work Efficiency

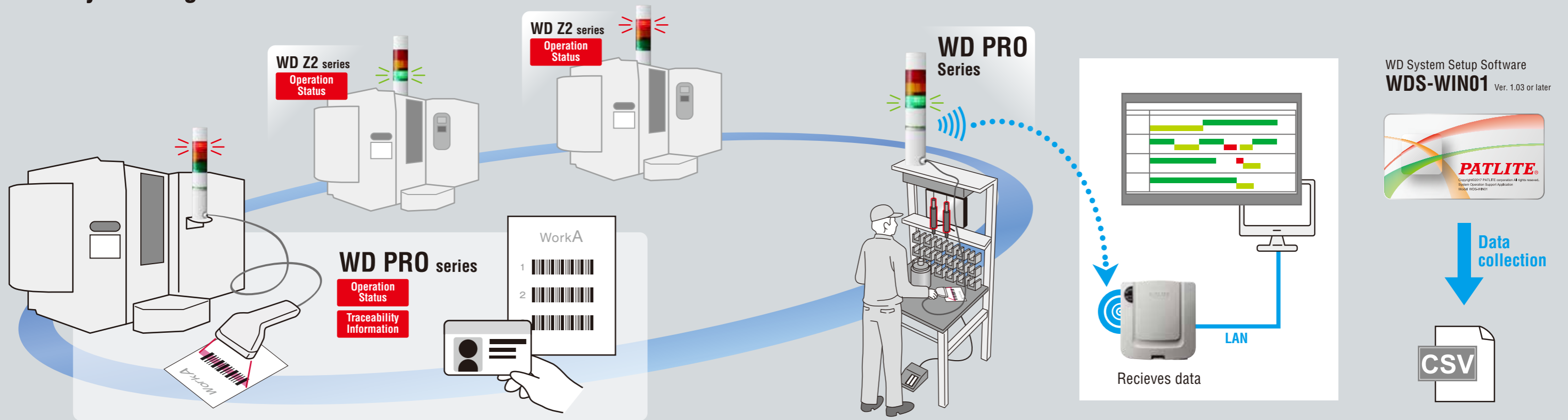
Features 2-way wireless communication
to remotely trigger tower light signals

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.

O-AI05 EN 1911 B

The WD Pro adds a myriad of additional features to any existing WD Series network.



Wireless Data Acquisition System WD PRO series

**WD PRO Transmitter
WDT-6LR-Z2-PRO**

Compatible base unit
WD PRO series

Current consumption **MAX 110mA** (Total value of transmitter and base unit)

Radio wave reaching distance without obstacles
20m *3

*To be installed on the WDB-D80S-PRO base unit. (not compatible with the LR6 body unit)

**Contact Input -
Serial Communication Base Unit
WDB-D80S-PRO**

**Input
Serial base unit**

Transmitter
Transmitter for WD PRO

**WD PRO Transmitter
WDT-6LR-Z2-PRO**

Contact Input -
Serial Communication Base Unit
WDB-D80S-PRO

Wireless Data Acquisition System WD-Z2 series

Transmitter

Transmitter for LR6/LR5 *Not compatible with WD PRO Series

**Transmitter for
the LR6 signal light
WDT-6LR-Z2**

Compatible signal light model
LR6 series *1

Current consumption
MAX 55mA

Radio wave reaching distance without obstacles
20m *3

**Transmitter for
the LR5 signal light
WDT-5LR-Z2**

Compatible signal light model
LR5 series *1

Current consumption
MAX 55mA

Radio wave reaching distance without obstacles
20m *3

Receiving machine

Receiver WDR-LE-Z2

Recommended number of connected transmitters
20 Max. 30 *2

Connection method **LAN/USB**

Current consumption **typ. 65mA**

Multiple receivers can operate at the same time. *4

*1: There are some restrictions on compatible signal lights, so please contact Patlite for details. *2: Due to the properties of radio waves, this number may differ according to the location of the receiver, the communication environment, and the communication frequency. *3: This is a reference value. The actual value may differ due to the properties of radio waves. *4: Multiple receivers cannot operate at the same time if a USB connection is used. (Contact Patlite for details.)

More Data Means Smarter Decision-Making

The WD PRO Series features 2-way wireless communication for better plant-wide visibility while enabling you to gather more data points for better predictive maintenance, quicker problem resolution, and OEE improvement.

Understand the cause of equipment shutdown

8 points of contact input

Up to 765 data codes can be acquired to identify exact cause and timing of equipment malfunctions.

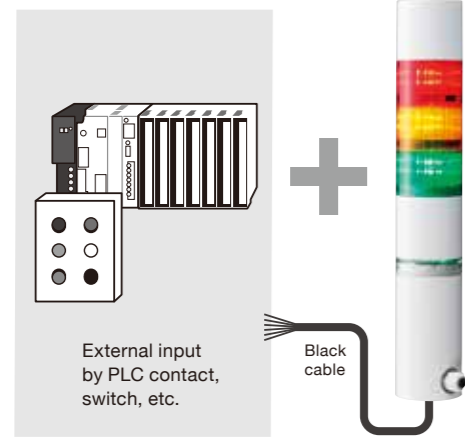
Error code table

Signal tower Information 3 points × External contact input 8 points → **765 factor data can be acquired**
*When using 3 segment signal tower

Decimal number	Contact input (ON - ● OFF - ○)							
	①	②	③	④	⑤	⑥	⑦	⑧
1	●	○	○	○	○	○	○	○
2	○	●	○	○	○	○	○	○
3	○	○	●	○	○	○	○	○
253	●	○	●	●	●	●	●	●
254	○	●	●	●	●	●	●	●
255	●	●	●	●	●	●	●	●

Equipment operation status × Detailed information → **Detailed data of equipment operation / non-operation**

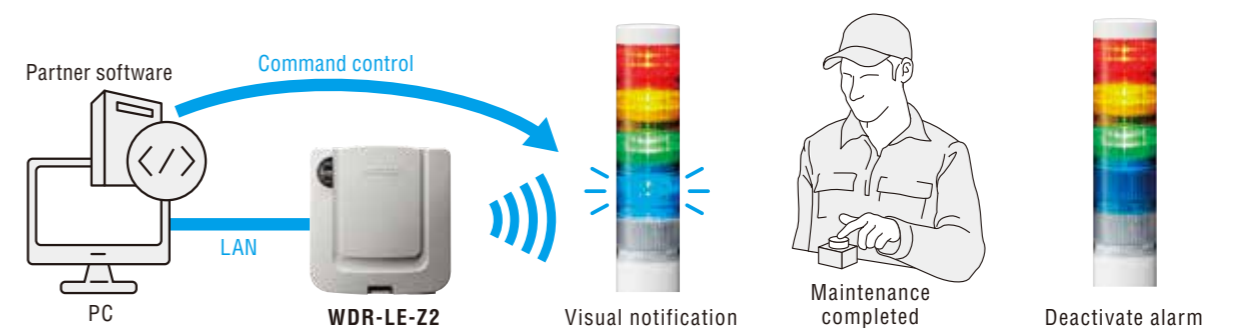
Cause-based Pareto analysis



Eliminate downtime

Remote Signaling

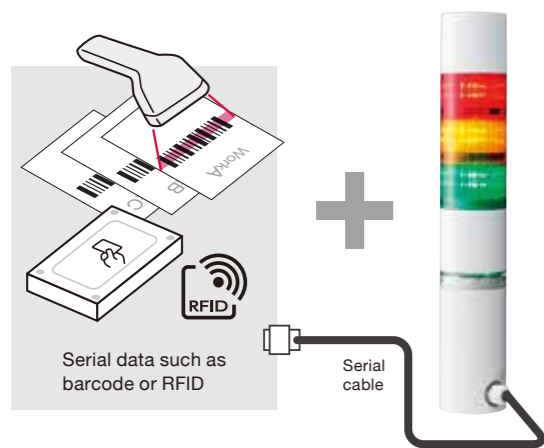
Notifies remote operators instantly of equipment abnormalities, as well as the type of maintenance required.



Acquire additional levels of information

Serial Cable

Connect a bar code reader to the WD PRO to trace employee data for greater control over products and process quality.



Worker ID input by barcode

20XX.00.00	SMITH	8	9	10	11	12	13	14	15	16	17	18	19	20
Unit 01 (total)														
Unit 01 (actual)	77340	78.43%	16560	4600										
Unit 01 (earned)														
Unit 02														

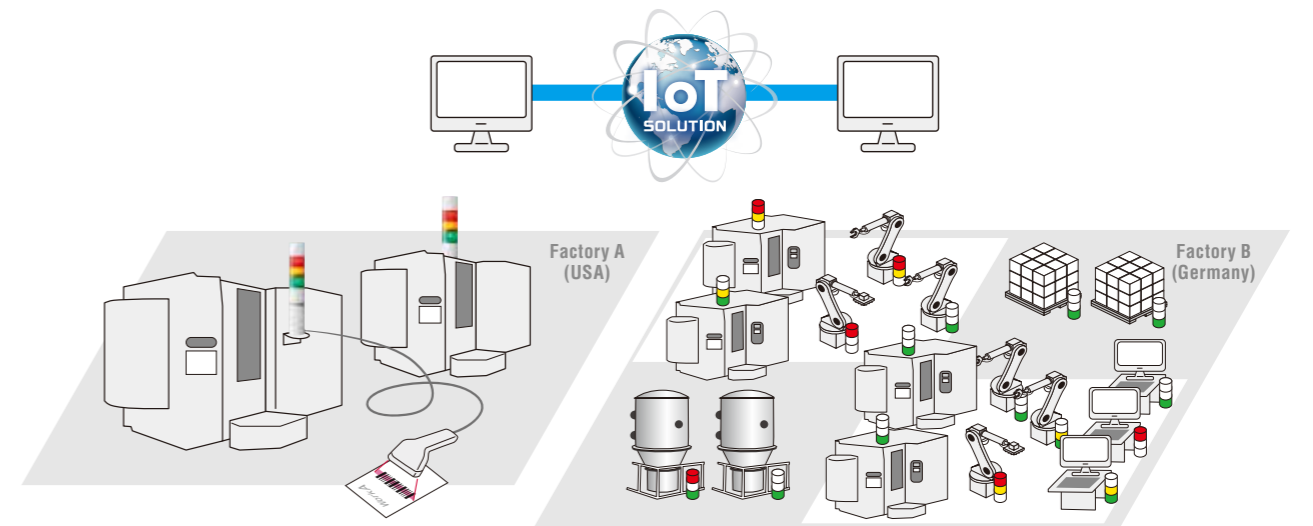
Legend: workA (dark blue), workB (medium blue), workC (light blue)

Equipment operation data by WD, Item number input by barcode, Production planning

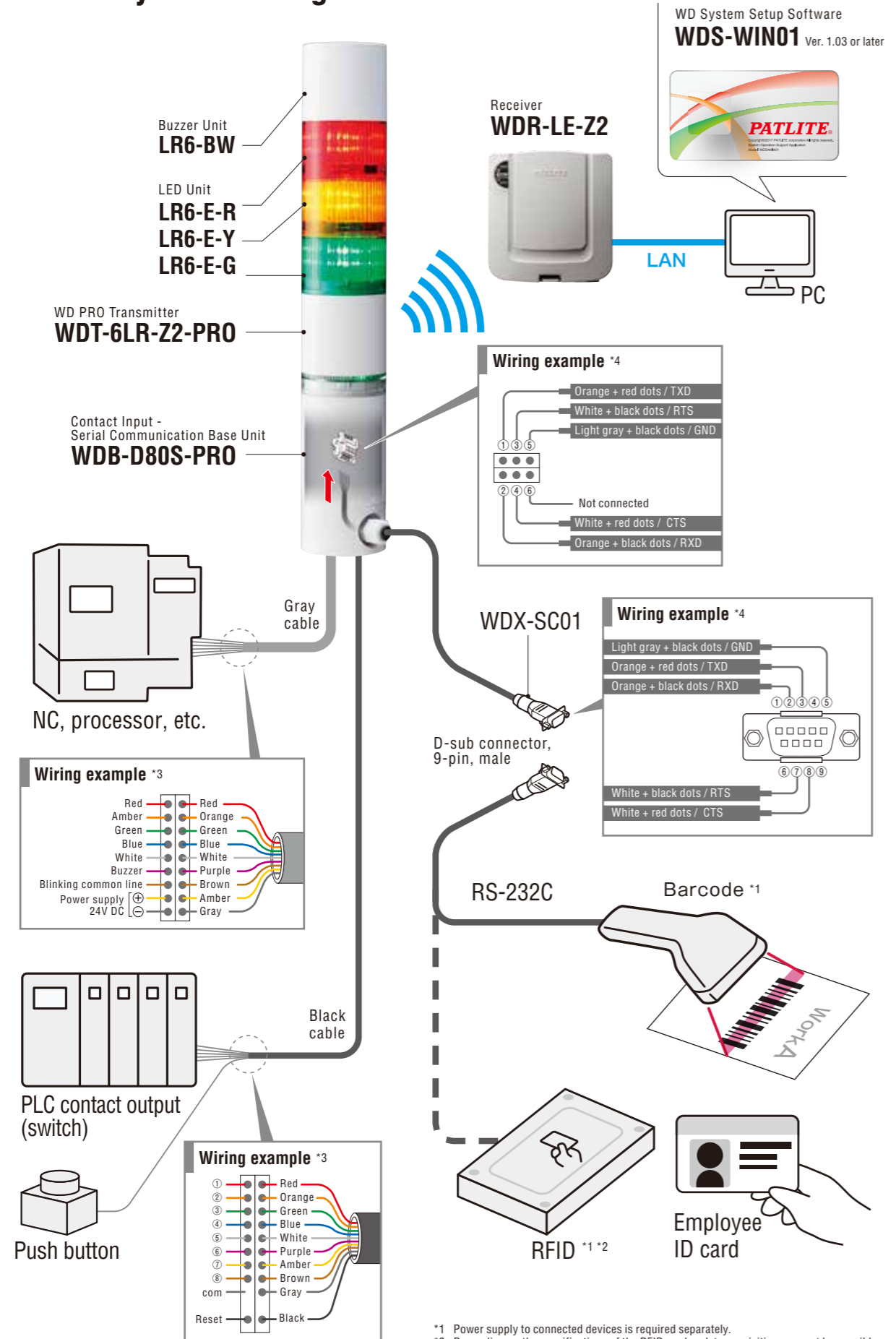
Monitor multiple facilities remotely and in real-time

Supported areas (as of November 2019)
 WD-Z2 : 41 countries
 WD PRO : USA, China, EU, Korea, Taiwan, Thailand, Indonesia, Mexico and Japan

Utilize compatible software to monitor multiple factories located across the globe.



WD PRO System Configuration



*1 Power supply to connected devices is required separately.
 *2 Depending on the specifications of the RFID reader, data acquisition may not be possible.
 *3 Please check the instruction manual for wiring instructions.
 *4 For pin assignment when using a serial cable, refer to its corresponding instructions manual.

WDS-WIN01 CSV Output Sample

Ver. 1.03 or later

Date Time	MAC address	user name	Red information	Amber information	Green information	WDT Surveillance intelligence	RS-232C data (ASCII code)	External input information (Decimal number)	Clear input information
2019/3/15 9:44	6CE4DAFFFE019925	machine 1	0	0	0	9		0	0
2019/3/15 9:44	6CE4DAFFFE019925	machine 1	0	0	1	9	012035 SMITH	0	0
2019/3/15 9:44	6CE4DAFFFE019925	machine 1	0	0	1	9	20190315 AANKBB 200pc	0	0
2019/3/15 9:52	6CE4DAFFFE019925	machine 1	1	0	0	9		0	0
2019/3/15 9:52	6CE4DAFFFE019925	machine 1	1	0	0	9		155	0
2019/3/15 10:15	6CE4DAFFFE019925	machine 1	0	0	1	9		0	0
2019/3/15 10:15	6CE4DAFFFE019925	machine 1	0	1	0	9		0	0
2019/3/15 10:20	6CE4DAFFFE019925	machine 1	0	1	0	9	MATERIAL SHORTAGE	0	0
2019/3/15 10:25	6CE4DAFFFE019925	machine 1	0	0	1	9		0	0
2019/3/15 11:05	6CE4DAFFFE019925	machine 1	0	1	0	9		0	0
2019/3/15 11:05	6CE4DAFFFE019925	machine 1	0	1	0	9	END	0	0
2019/3/15 11:06	6CE4DAFFFE019925	machine 1	0	0	0	9		0	0
2019/3/15 13:05	6CE4DAFFFE019925	machine 1	0	1	0	9	20190315 CCNKDD 300pc	0	0

Data sample

① Signal Tower information (6 inputs = Red, yellow, green, blue, white, buzzer)
 ② External configuration information (8 inputs = Binary 0 to 255)
 ③ Serial data (RS-232C = ASCII code) 2-10-16 can be selected by setting.
 ④ Reset input information

Specifications

Model code	WD PRO Transmitter WDT-6LR-Z2-PRO	Contact Input - Serial Communication Base Unit WDB-D80S-PRO
Rated Voltage	DC 24V	
Size	Φ60	
Protection Rating	IP65	
External Contact Input	—	Signal tower inputs (red, yellow, green, blue, white, buzzer); 8 external contact inputs; 1 reset input; serial communication input
Wireless specification	2.4GHz Zigbee	—
Corresponding receiver	WDR-LE-Z2	—

Options

- Serial Cable** WDX-SC01
- Buzzer Unit** LR6-BW
- Upper Bracket** SZP-004W
- Solid Color** LR6-E-R/Y/G/B/C
- Clear Globe** LR6-E-RZ/YZ/GZ/BZ
- Pole Bracket** SZ-016A
- Wall mount Bracket** SZK-003W
- Pole** POLE-800A21 800mm, POLE-300A21 300mm, POLE-100A21 100mm
- Other options:** SZ-010, SZK-001U