

Panasonic Electric Works Sales Middle East FZE.

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The Standard of Flexible, Functional, Energy- Efficient Lighting Multiplex Transmission FULL-2WAY Remote Lighting Control System Simple, Efficient Lighting Control That Matches Your Needs

Multiplex transmission FULL-2WAY remote control system uses just two 24 V signal wires for all the switches on a network, and controls lighting using pulse signals. This makes for a simple and flexible system that requires little maintenance. We've proved that highly functional systems does not require complex wiring. In wide use in many office buildings, these systems provide the standard for simple, efficient, and effective control.

ECOLOGY

Save-Energy, Save-Cost

Timers and sensors control the system to provide light only when needed. This cuts energy use and costs.

SIMPLE

Simple Design and Labor-Saving Installation

The system employs a multiplex transmission method using two non-polarized signal wires. This drastically reduces the number of wires needed compared to conventional remote control wiring.

AMENITY

Matches All Lighting Control Needs

You get lighting control to match your exact needs. With just a touch of a button, you can either turn on/off all lights in one area of the building, or turn on/off individual lights as required.

CONVENIENCE

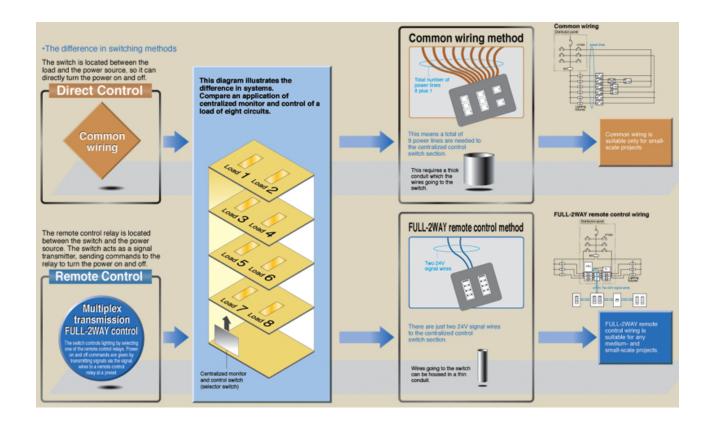
The Bigger the Building, the More Labor-saving, the Hintallation. The Key is Our Special Switching System. Because switch functions can be programmed after wiring is

complete, the entire process is speed up-from design and Multiplex transmission FULL-2WAY wiring is designed differently than common wiring methods. Commands are signaled estimating to ordering delivery, and installation. System from remote locations and lighting controlled using just two 24V non-polarized wires, so installation unit labor costs decrease functions can also be quickly and easily changed.

FLEXIBILITY

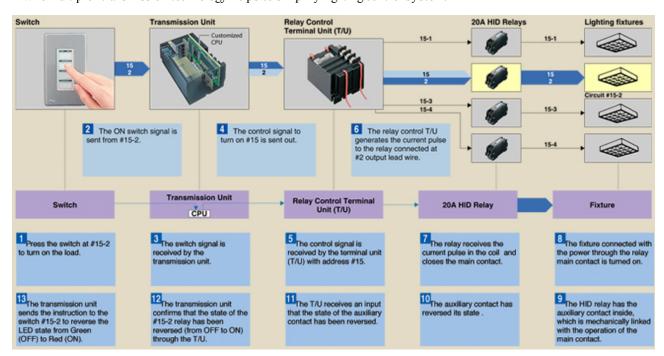
Flexibility Reduces Total Costs

There's no need to modify the wiring if lighting control has to be changed due to room layout alterations. This contributes to reduced overall costs.



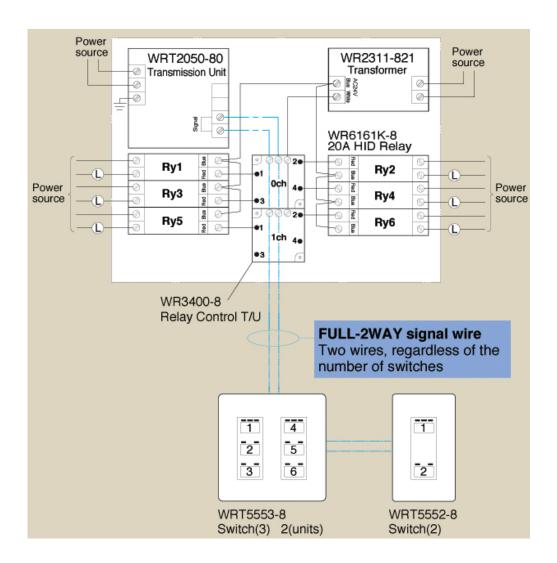
System Principle

2-wire multiplex transmission technology helps to simplify lighting control system.



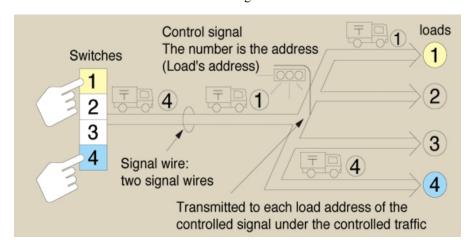
Basic circuit

Easy installation-just match to the applicable, load and the switch T/U address.



The transmission system features of FULL-2WAY remote control system FULL-2WAY remote control system

- •Multiple transmission system allows 2 signal wires to control multiple loads.
- •Load address for switches and T/U need to be matched according to the loads.

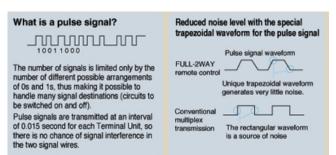


Specifications of the Transmission Unit What is multiple transmission?

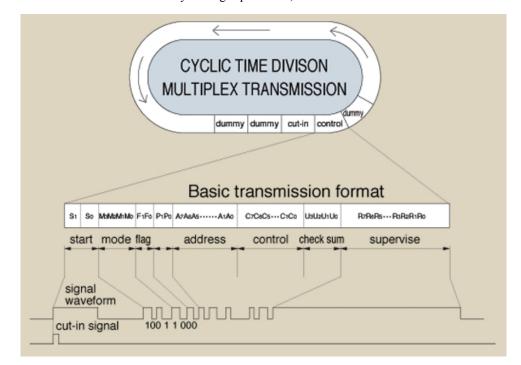
| Signal transmission method | Cyclic time sharing multiplex transmission with cut-in signal method |
|------------------------------------|--|
| Signal wires | Two wires with no polarity |
| Signal voltage | 24V |
| Output current | 500mA max. |
| Transmission speed | Approx. 15 msec. per terminal unit (10Kbit/sec.) |
| Relay activation time | 0.2 sec. max. |
| Max. number of circuits | 256 circuits |
| Signal transmission distance | |
| Maximum signal wiring length | 500m max. with 1.2 mm dia.wire (Between transmissin unit and the farthest point) |
| Total signal wiring length | 1,500m max. with 1.2 mm - diameter wire |
| Extension of transmission distance | with use of 5 amplifiers (WR 3913-80); Maximum signal wire distance: 3,000 m, Total signal wire length: 9,000 m |
| Ambient temperature range | -10°C to 50°C |
| Power failure backup | Flash memory for groups/patterns (no battery backup) |
| | |

The system transmits signals via two wires to circuits which are to be switched on and off. With FULL-2WAY multiple transmission, load addresses comprised of channel and load numbers are set up in advance, and the signal is transmitted to the designated addresses that correspond to remote controlled relays HID when switches are operated.

With multiple transmission, the signal is transmitted by pulse signals

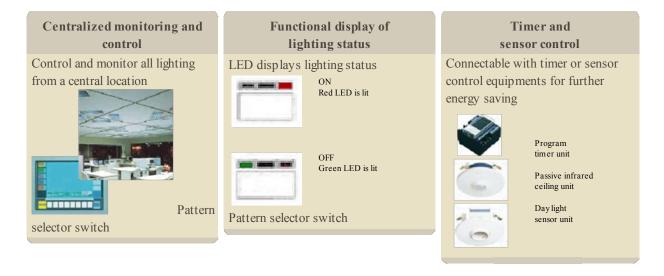


FULL-2WAY remote control has the cut-in method of high-speed control response and signal indication In addition to "CYCLIC TIME DIVISION MULTIPLE TRANSMISSION METHOD", , a new technology called the "CUT-IN SIGNAL CIRCUIT" can control relays at high speed and , indicate on the ON/OFF status.



Function and Features of FULL -2 WAY Remote Control

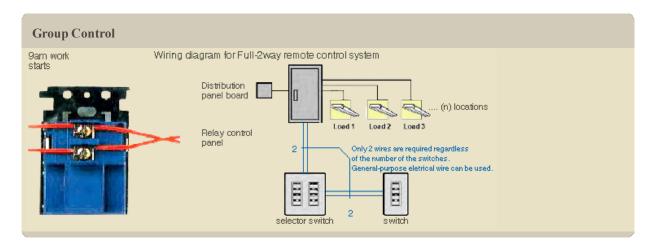
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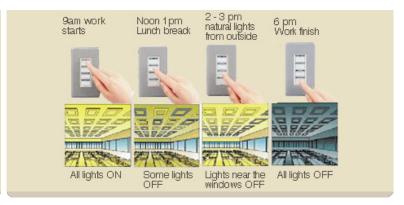
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| Group Control | Pattern Control |
|---------------|-----------------|
|---------------|-----------------|

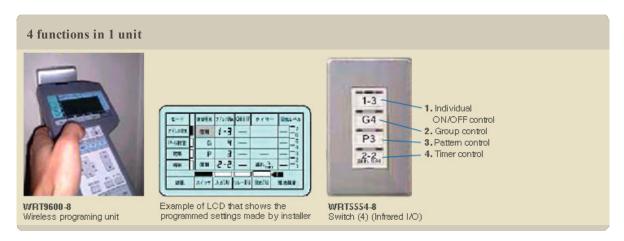




CONVENIENCE

Minimal Design, Minimum Maintenance

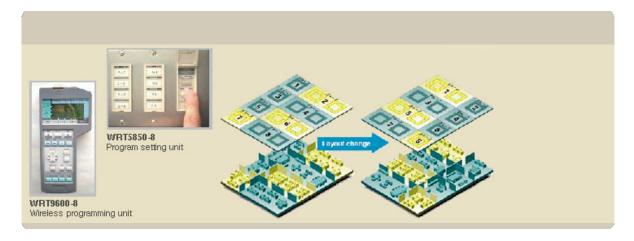
Because switch functions can be programmed after wiring is complete, the entire process is speed up-from design and estimating to ordering delivery, and installation. System functions can also be quickly and easily changed.



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