

# LoRaWAN Relay Output Node



Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Farm, Smart Factory

SKU: WSLRW-RL

## LoRaWAN RELAY OUTPUT NODE WSLRW-RL

LoRaWAN



WSLRW-RL-H1.JPG

Safe Zone

Hazardous Zones

WSLRW-RL is a LoRaWAN node with relay output to electrically operate switch that uses a small electrical signal to control a larger electrical circuit. It works by energizing a coil, which creates a magnetic field that moves an armature to open or close contacts, allowing or interrupting the flow of electricity. This makes relays essential for controlling high-power devices with low-power signals. The node will transmit data in kilo-meters distance to the LoRaWAN gateway from any brand on the market. LoRaWAN relay nodes are used in various applications to remotely control devices with low power consumption over long distances. They manage industrial machinery, automate home systems like lighting and heating, regulate pumps and valves in water treatment plants, optimize irrigation in agriculture, control energy distribution in buildings, and operate urban infrastructure such as streetlights and traffic signals.

### Applications

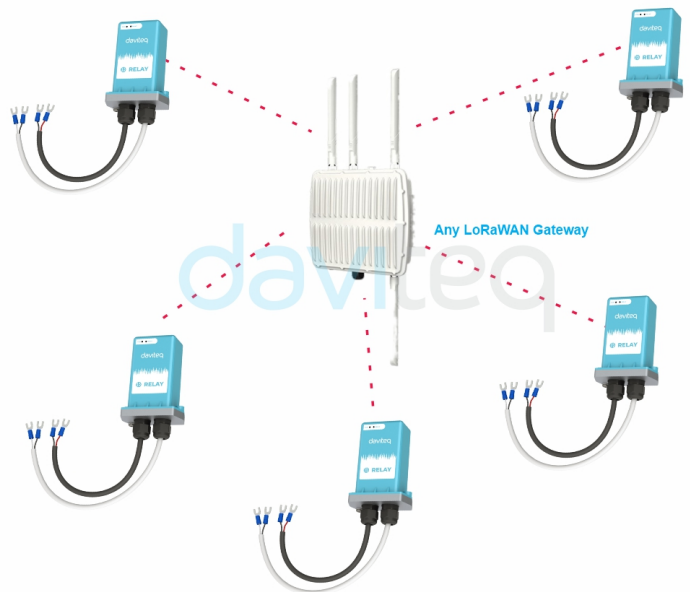
Smart Irrigation, Water Supply System, Water Level Control, Oil Level Control, Home Automation, Industrial Automation, Energy Distribution, Urban Infrastructure

### Notes For Applications

- Load Requirements: Match the relay's voltage and current ratings to the load.
- Coil Specs: Ensure the coil voltage and power match your control circuit.
- Contact Configuration: Select the appropriate contact form (SPST, SPDT, etc.) and rating.

- LoRaWAN communication**  
LoRaWAN communication standard to allow the device connect to any LoRaWAN Gateway on the market.
- Remote Control via Class A or Class C (default)**  
Remotely control via downlink command in Class A or Class C mode (default)
- Control schedules to prevent wrong control**  
Control schedules to prevent wrong control when LoRaWAN communication loss during controlling process
- Cost-effectiveness of wireless control**  
Wireless control to reduce installation and maintenance costs by eliminating cabling and physical connections

LoRaWAN NETWORK



WSLRW-RL-H6.JPG

## DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

[www.iot.daviteq.com](http://www.iot.daviteq.com)

Created date: Jul-29-2024


Updated date: Aug-28-2024


1/4


## Specification

Number of relay channel	1 channel/2 channel/4 channel
Contact rating	Electro-mechanical relays, SPST (NO) 250 VAC@8A (resistive load) 24 VDC@5A (resistive load), 10,000,000 operations min. (at 18,000 operations/h)
Max power consumption	1.5 W
Power supply connection	PG9 with 90 cm length, 2x 23 AWG cable
Relay contact connection	PG9 with 90 cm length, 2x 1.0 mm <sup>2</sup> cable,
Control functions	On/Off based on control schedule
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	Internal Antenna 2 dbi
Power supply	External power supply 7-48 VDC
RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN Class A or Class C (default) V1.0.3
Data sending modes	cycle, alarm and manually triggering by magnetic key
Alarm function	Yes
Remote control via schedule downlink	Class A or Class C mode
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval	
Ambient working temperature	-40~85°C
Dimensions	H106xW73xD42
Net-weight	200g
Housing	Engineering plastic, IP67
Mounting	Wall mount

### DAVITEQ TECHNOLOGIES INC

 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

[www.iot.daviteq.com](http://www.iot.daviteq.com)

Created date: Jul-29-2024

Updated date: Aug-28-2024

2/4

APPLICATION TO CONTROL ON/OFF PUMP IN GREEN HOUSE



WSLRW-RL-H3.JPG

APPLICATION TO CONTROL ON/OFF VALVE ON AGRICULTURE FIELD



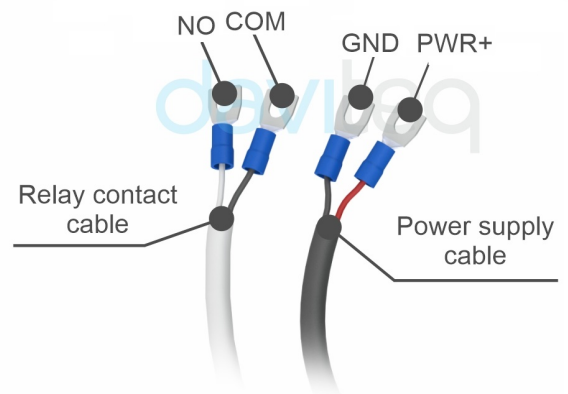
WSLRW-RL-H2.JPG

APPLICATION TO CONTROL ON/OFF LIGHT IN PARK



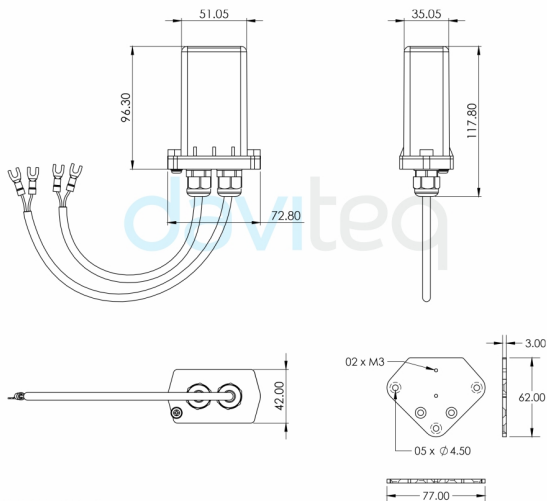
WSLRW-RL-H4.JPG

WIRINGS



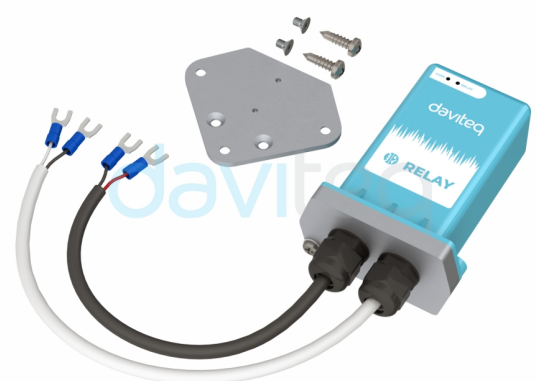
WSLRW-RL-H5.JPG

DIMENSION DRAWING OF WIRELESS NODE (Unit: mm)



WSLRW-RL-H7.JPG

PRODUCT PACKAGE



WSLRW-RL-H8.JPG

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com


Created date: Jul-29-2024


Updated date: Aug-28-2024


## Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-RL-11	LORAWAN NODE WITH RELAY OUTPUTS, 7-48VDC, IP67, INTERNAL ANTENNA 1x SPST RELAY 10A@250VAC
WSLRW-RL-12	LORAWAN NODE WITH RELAY OUTPUTS, 7-48VDC, IP67, INTERNAL ANTENNA 2x SPDT RELAYS
WSLRW-RL-14	LORAWAN NODE WITH RELAY OUTPUTS, 7-48VDC, IP67, INTERNAL ANTENNA 4x SPST RELAYS

### DAVITEQ TECHNOLOGIES INC

 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

[www.iot.daviteq.com](http://www.iot.daviteq.com)

Created date: Jul-29-2024

Updated date: Aug-28-2024

4/4