

## Wi-Fi tag with remote control capabilities

AiRISTA Flow's AiR Wireless Relay Controller (WRC) is designed to wirelessly, using 2.4GHz Wi-Fi 802.11 standards provide remote control capability to switch on/off external relay interfaces to power on/off third party devices. AiRISTA Flow's AiR-WRC receives commands from AiRISTA Flow's visibility platform to turn on/off the power or provide signal to the external device, allowing control of devices such as alarm indicators (siren, strobe lights) and mechanical devices (door locks, elevator control modules.)

### Tamper-proof capabilities

The AiRISTA Flow AiR-WRC has a durable design that has an optional tamper resistant installation attachment. This design makes it more flexible to use this tag in places that need to have a more durable structure to withstand harsher conditions in hospitals, manufacturing plants, or other facilities. The screws are concealed within the housing of the tag.

### Easily customizable

With fully customizable features and programmable firmware, the AiRISTA Flow AiR- WRC is easily manageable. Over the air programming and configuration capabilities makes it easier and less of hassle to program the tag to fit a facilities functionality.



## Features

- Wi-Fi 802.11 compliant (Encryption: WEP, WPA, WPA2)
- Full transmit and receive functions
- Wi-Fi Configurable transmit power: 0dBm to +12dBm
- Tamper resistant installation attachment
- Optional tamper detection & sensor interface
- Optional PoE interface for wall/ceiling mount models
- External power interface, AC 110/240V with internal AC/DC adapter
- Rugged housing, concealed housing screws
- Built-in antenna
- Customizable features and programmable firmware by AiRISTA Flow
- Built-in reporting and infrastructure monitoring
- Over-the-air programming and configuration capabilities
- Over-the-air firmware upgrade capability
- Supports various external relays for wide range of applications

# Technical Specifications

## Radio

Supported Wi-Fi Networks: 802.11 b/g  
Sleep Mode Maximum Leakage Current: < 4 uA  
RX Wi-Fi with CCK/DSSS (1, 2, 5, 11 Mbits/s):  
37mA  
RX Wi-Fi with OFDM (6, 9... 54 Mbits/s): 37mA  
Tx Wi-Fi at +12 dBm: 125 mA @14dBm into  
antenna  
Max Wi-Fi Output Power: 12 dBm  
Operating Current Tx & Rx Disabled: 18 mA  
RISC core operating

## Electrical interface

Voltage: 110-240V AC  
Certification: FCC and Cr, UL approved internal  
power adapter  
Current Consumption: 1A  
Relay Interface: 5V

\*supports external relays with wide voltage range

## Antenna specifications

RBU Antenna: Internal Omni-directional 2.4GHz  
Antenna  
Locator Antenna: Internal Directional 2.4GHz  
Antenna

## Certifications

FCC: Part 15 (US and Canada)  
CE Mark (European Union)

## Environment

Operating temperature: -30 to 85°C  
Storage temperature: -30 to 85 °C  
Protection: dust and splash proof enclosure

## Typical operating range

Outdoor Range: Up to 135m (440 feet)

Indoor Range: Up to 45m (150 feet)

## Physical

Dimensions: 78 x 52 x 38mm  
Weight: < 560 grams  
Form Factor: ABS/ Polycarbonate enclosure

## Part number

Air.WRC.PLG.W

Specifications subject to change without prior notice.

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