

WR01 Web Relay

WR01 is a simple yet powerful network-controlled edge relay controller. It lets you remotely control equipment directly from your web browser — with a streamlined interface and an open API. Wired connectivity with updatable firmware ensures reliable operation at the edge, either stand-alone or as part of a larger automation network.



PoE



Universal Access



Power out



Zero-Client



Cellular

Key Benefits

Wide Voltage Range, PoE-Powered Simplicity

In a single streamlined unit, WR01 combines wide-voltage input (12V–24V DC/AC) and 802.3af PoE, adapting to global electrical standards while carrying data and power over one cable. This eliminates dedicated power lines, reducing material costs, labor, and deployment time—delivering a perfect blend of installation flexibility and operational simplicity.

Direct Power Delivery, Simplified Installation

A 12V/0.5A DC output built into the WR01 directly powers one external device, such as a lock or sensor, doing away with separate power supplies. The result is less cabling, faster deployment, and higher system reliability—an ideal mix of easy installation and long-term maintainability.

Cellular Connectivity, Unrestricted Deployment

For cellular connectivity, WR01 optionally integrates 4G LTE with a plug-and-play SIM and three LED indicators—all in a compact form factor. It enables reliable cable-free operation at remote sites and parking facilities, offering deployment flexibility and instant signal visibility.

Versatile Control, Universal Accessibility

WR01 supports multiple control protocols, while the WR01-L adds cellular call-based remote operation. Together, they bring HTTP API integration, BLE proximity access, and Caller-ID activation (WR01-L only) into a single platform. Standard HTTP API, SmartPlus app management, BLE relay control, and Caller-ID access (WR01-L only) strike a perfect balance between integration flexibility and effortless accessibility for integrators, administrators, and end users.

Zero-Client Management, Local Data Security

The WR01 features a built-in web server and high-capacity local memory, enabling zero-client management through any standard browser with no software installation. It stores up to 20,000 users and 100,000 access logs locally for instant, private retrieval, striking a harmonious balance between deployment simplicity and management reliability.

Specifications

Physical & Power

Body Material	6063 Aluminum Alloy
Relays	2
Inputs	2
Status Indicator	3
Reset	1
BLE	Support BT5.0
Ethernet port	1xRJ45, 10/100Mbps adaptive
PoE	802.3af Power-over-Ethernet
Power In	1, 12VDC/1A or 24VDC/500mA or 12VAC/1A or 24VAC/500mA
Power Out	1, Max 12VDC/0.5A
LTE	Only WR01-L support
SIM Card Slot	1, Only WR01-L support
LTE Signal Indicator	3, Only WR01-L support
Installation	Wall-mounted & DIN-Rail
WR01 Dimension (HxWxD)	154.45x71x26.9mm
WR01-L Dimension (HxWxD)	164x71x26.9mm
Working Humidity	10~90%
Working Temperature	-20°C ~ +55°C
Storage Temperature	-30°C ~ +70°C

Door Entry Feature

Access Methods	HTTP API / BLE / Caller-ID (only WR01-L support)
Access Schedule	Support
Door Access Logs	Support

Capacity

User	20,000
Access Log	100,000

Networking & Protocol

Protocols	IPv4, HTTP, HTTPS, FTP, DNS, NTP, TCP, UDP, ICMP, DHCP, ARP
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Deployment & Maintenance

Auto-Provisioning
 Web Management Portal
 Configuration Backup / restore
 Firmware Upgrade
 System Logs
 Akuvox Cloud Management
 Akuvox SDMC & ACMS Pro