

Red5 Access Unit

Pre-Wired Access Control System for Rapid Deployment

Description

The Red5 Access Unit is a pre-wired, pre-tested enclosure that simplifies the installation of a Delta Controls Red5 access control system.

It includes a Red5-EDGE-ROOM controller, up to four Red5-MODULE-1D00R access modules, a 24 VDC power supply, battery monitoring (Battery Discharge and Battery OK), and a tamper switch, all mounted in a NEMA 1 steel enclosure with DIN-rail organization.

This factory-assembled solution delivers a complete access control foundation that reduces wiring time, ensures consistent installation quality, and accelerates system commissioning.



Features

- ▶ Factory assembled and fully tested for plug-and-play installation
- ▶ Integrated Red5 controller for unified access, lighting, and HVAC control
- ▶ Supports VIVOTEK license plate camera integration and people counting
- ▶ Pre-wired 24 VDC power supply and battery-backed 24 VDC UPS for continuous operation during power loss.
- ▶ NEMA 1 steel enclosure with pre-installed tamper detection switch
- ▶ Modular DIN-rail layout for easy service and expansion
- ▶ Supports BACnet/SC, BACnet/IP, BACnet MS/TP, OSDP, OSDP Secure Channel, and Wiegand communications
- ▶ Built with UL-listed and RoHS-compliant components

Application

The Red5 Access Unit is ideal for facilities requiring standalone access controls or integrated controls.

Each Red5 Access Unit integrates seamlessly into the Red5 ecosystem to deliver coordinated access, HVAC, and lighting control within a unified BACnet environment.

Typical applications include offices, schools, retail spaces, and tenant suites where fast deployment, reliability, and a professional appearance are essential.

Specifications

Power Input

120 VAC nominal

Power Output

24 VDC, 5 A, 120 W max

Backup Duration

Up to 130 minutes at full output with two 12 VDC 12 Ah SLA batteries (not included) in series, >260 minutes typical. Smaller batteries down to 3 Ah can be used with reduced backup time.

Communication

BACnet/SC, BACnet/IP, BACnet MS/TP, OSDP, OSDP Secure Channel, Wiegand

Door Capacity

1 door per Red5-MODULE-1D00R (up to 4 doors) per cabinet. Deploy additional cabinets to increase door capacity.

Operating Temperature

0°C to 50°C (32°F to 122°F)

Enclosure Rating

NEMA 1, IP30

Dimensions

660 × 508 × 178 mm (26 × 20 × 7 in.)

Weight

Approximately 18 kg (40 lb)

Compliance

UL 916
UL 508
IEC/EN 62368-1
FCC
CE
UKCA
RoHS 3 (2015/863/EU)

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Components

Component	Model	Description
Controller	Red5-EDGE-ROOM	Native BACnet building controller supporting access, lighting, and HVAC integration
Door Module (4 included)	Red5-MODULE-1DOOR	Access control module providing reader, REX, contact, and lock control for one door
Power Supply	DRL-24V120W1EN	24 VDC, 5 A, DIN-rail power supply
UPS Module	DRU-24V10ACZ	24 VDC DC-UPS with 12 Ah battery capacity support
Enclosure	RET1-262007GY-P	NEMA 1 powder-coated steel enclosure, 660×508×178 mm (26×20×7 in.)
Tamper Switch	MK04-1A66B-500W	Normally open switch, closed when enclosure closed for intrusion detection

Ordering

Order the Red5 Access Unit using the following product number:

Number	Description
191880	RED5 ACCESS UNIT 4 DOOR: Pre-wired access control assembly with Red5-EDGE-ROOM controller and four Red5-MODULE-1DOOR modules

Subject to change without notice.