



Product Code: 837-540  
Description: VOLO 2-Reader ACU  
MASTER Controller

## OVERVIEW:

VOLO is a highly scalable and flexible cloud-based access control solution, specifically designed to offer centralised control and remote management of multi-site premises. VOLO provides exceptional connectivity through a standard LAN connection or using cellular networks.

With up to 100,000 users per controller, the capacity for over 10,000 sites managed through a single account, and the flexibility of a LAN or mobile/cellular connection, VOLO can provide an elegant solution for large remote estates and a wide variety of applications.

With our cellular connectivity, VOLO provides a simple but powerful solution for accessing remote locations where power is the only service required for VOLO to operate – truly plug and play. This can represent a significant cost-saving compared to installing fibre on the site.

The ACU will store up to 4,000 events locally in the event of a loss of connection to the Amazon Web Services Cloud, ensuring no loss of event data during any network outages.

## FEATURES:

- Dual connection mode – Ethernet/LAN or VOLO modem
- Roaming SIM to allow connection to multiple major networks
- 2 Door/Reader Controller
- Supports Clock & Data or Wiegand
- Each Master controller can support up to 24 Expansion controllers
- Over 10,000 sites
- Over 100,000 users
- 128 configurable VOLO Timezones
- 512 configurable VOLO Access Levels
- Full reporting suite – Run on-demand or on a schedule
- LED Diagnostics
- Accessible through any modern browser from any connected device (smartphone, tablet, laptop, PC)
- Open REST API available to allow 3<sup>rd</sup> party software integration
- Designed & manufactured in the UK





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FEATURES	
Web browser	Edge, Firefox, Chrome, Safari
Sites/Connections	10,000+ connecting to cloud
Doors	10,000+ with 2-door controllers
Communication Options	Ethernet or VOLO modem up to 50 doors per master controller
Users	100,000+ per controller
Alarm Notification	On-screen & by e-mail
Timezones	128 per site
Holidays	16 per site
Access Levels	512 per site
Activity Reports	Daily, weekly, monthly, or on demand
LEDs	Power, unlock, modem, OK and diagnostics

INPUTS	
Readers/Keypads	Clock & Data, Wiegand (up to 64-bit – format configurable)
Door Contacts	Normally closed
PSU (fail, on battery)	Normally closed
Tamper (cabinet)	Normally closed
4 x spare inputs (configurable)	Configurable

CABLE	
Belden 9538 (8-core)	Up to 25m (reader to controller)
Belden 9540 (10-core)	Up to 100m (reader to controller)
Belden 9841 (1-pair)	Up to 1000m (ACU BUS - controller to controller)

CABINET	
Material	Plastic
Width	236mm (9 1/8 in)
Height	320mm (12 5/8 in)
Depth	80mm (3 1/8 in)

PART CODES	
VOLO 2-Door ACU – Master Controller (in cabinet with VOLO Modem, SIM & 12V 2A PSU)	837-504
VOLO 2-Door ACU – Expansion Controller (in cabinet with 12V 2A PSU)	837-510
VOLO Hosting Licence – 12 months	837-600
VOLO Airtime Licence – 12 months	837-580

OUTPUTS	
2 x lock relays	24V DC 4A max
2 x spare outputs (configurable)	12V DC 0.5A max

ELECTRICAL	
Supply	Cabinet PSU - 100-240V AC 50/60Hz Controller - 12/24V 2A DC
Power Consumption	2A max @ 12V DC 0.5A typical @ 12V DC
Temperature	0°C to 55°C 32° to 120° F
PSU	12V DC 2A with battery charger
Battery Backup	12V 7AH Lead Acid (not included)
Mobile Network	LTE.M & any 2G
Antenna	Multiband, T-bar, SMA Male – Only use the antenna provided
Integrated Modem	IoT Gateway – LTE.M & 2G
Ethernet	10/100 Mbps
RS-485 Dataline	1000m max (controller to controller)
Approvals	UKCA/CE – Radio, EMC, Safety

