Aliro Access Point Unit AP

The Access Point unit (AP) is used for controlling one door environments as part of an Aliro Access Control system. It can be configured from the Aliro web server via Ethernet or a combination of Ethernet and RS485 as well as via the built in AP web server using the USB-port. The AP also uploads any events to the server.

- Fully configurable inputs & outputs
- Distributed intelligence
- IP addressing of doors
- State-of-the art technology
- Modern design

Answers for infrastructure.

SIEMENS

Specification

- **Reader connections**

The AP has two reader connections with power out support and is compatible with RS485, Clock&Data and Wiegand interfaces.

- **Reader protocols**

The AP supports Clock & Data and Wiegand reader interface protocols through simple configuration from the system software.

- **General inputs**

A customised setup for input functionalities is achievable for the AP via easy software configuration with support for both closing contacts (i.e. exit buttons), as well as monitored inputs using resistances.

- **Relay outputs**

Two NO-C-NC relays enable flexible control of locks and external functions. (1 X bi-stable, 1 X mono-stable)

- **General outputs**

The AP has open-collector outputs for flexible controlling of external equipment.

- **USB ports**

The AP is equipped with three USB ports. These include 2 X type A (for general purpose use in the future), and 1 X Type B for PC connection.

- **Connections**

The AP has onboard TCP/IP and RS485 connections.

- **Micro-SD port**

The AP has a built in Micro-SD port that is intended for use in future functionality support.

- **Easy to mount and wire**

The ergonomic design of the AP ensures that it is easy to mount and wire.

- **Easy to configure**

The flat architecture of the system design ensures that devices are easy to configure over the network via intuitive auto-detect functionality on the server and in the AP.

- **Battery backup**

The AP has battery backup that maintains the internal settings and online status if power is temporarily lost.

- **Tamper function**

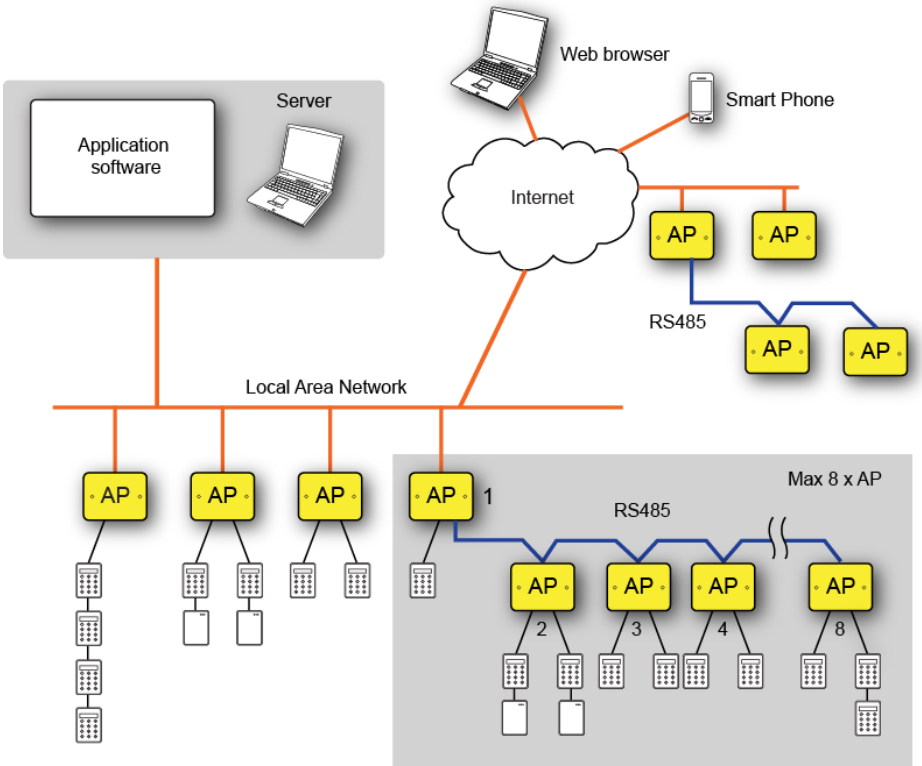
The AP has double built-in tamper protection to ensure alarms are created if the lid is opened, as well as if the unit is removed from the wall.

- **Future expansion**

The AP has been designed and developed to ensure that the system is future proofed so that it can support extended functionality in the future.

System structure

The AP can exist in different environments based on Ethernet and/or RS485 networks. One example is illustrated below.



Technical data

Supply voltage (nom.*):	12-24 Vnom +/- 10% 1Vpp ripple
Absolute voltage ratings**:	9.5 VDC-29.5 VDC. The AP Power Supply input must be protected by a fuse.
Power consumption:	Without reader **Idle:** 12V DC: 200 mA 24V DC: 125 mA **Full on**:*** 12V DC: 600mA 24V DC: 400 mA
Battery type:	CR2032
Reader interface:	Two (RS485, Clock-Data or Wiegand plus Power out). 700 mA (jumper in Vin position) 200 mA (jumper in 12V position)
Communications:	TCP/IP and RS485
Inputs:	Four general inputs.
Output:	– Two relay outputs. Max 30VDC, 2A. One bi-stable, one mono-stable – Four Open-collector outputs, max load 0.5A – One power supply output with Vin, max 2A
Temperature range:	-40 to +55°C
Humidity:	25°C @ 80% -> 55°C @ 93% (III, IEC 60839-11-1)
Environmental class:	II, IEC 60839-11-1
Dimensions (H x W x D):	156 x 201 x 53 mm

* Nominal voltage has margins for transformer tolerances, mains supply variations and interruptions.
** Absolute voltage has no margins and should be used for guidance only.
*** Full on represents:
– 500mA load on high-speed USB connector
– 100mA load on full-speed USB connector
– No readers connected
– Relays activated
– RS485 communication on all ports with EOL resistors
– Micro-SD Memory card installed

Details for ordering

Type	Part no	Designation	Weight*
AP01P	S54503-C101-A100	Aliro Access Point Unit, 1 door	650 g

* Unit incl. Packing material, accessories that are included in the delivery, and documentation

Further products and accessories can be found on the Internet: www.siemens.com/securityproducts

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

Siemens AB
Security Products
Englundavägen 7
SE-171 24 Solna
Tel. +46 8 629 03 00

www.siemens.com/securityproducts