AP1003 Reader Interface

The AP1003 Reader Interface seamlessly integrates with most of the popular current card technologies, such as Barcode, HID, Mifare etc., using Wiegand, Omron, RS232 and similar communication protocols. Existing systems can migrate to AEOS with no problem, and without having to replace existing cards and card readers. This can, for example, offer a business a single, integrated system for different branches with a variety of card systems. Moreover, the AP1003 allows you to use the best card technology for each user group. The functionality of the AP1003 can be easily configured using software components to match your specific requirements, now or in the future.

- Interfaces with the most popular card reading and communication technologies, such as Wiegand, Omron, Barcode and RS232
- Integrates a variety of cards in one system
- System upgrade while retaining cards and card readers
- Various cards for each user group
- Four freely programmable digital inputs
- Two configurable relay outputs
- Monitored inputs and outputs
- 2 x RS232 interface
- 12/24V DC output
- LED status indicator
- Can be analysed and programmed remotely
- Hot-swappable

Advanced security technology

• **Complete.** The AP1003 is equipped with four freely programmable digital input ports for the connection of sensors and contacts, such as a door contact or an RTE (request to exit) button. Monitoring of the digital inputs can be activated in the software. This makes it possible to check for sabotage, short circuits, interference or bridging. In addition, there are two freely configurable relay outputs for door lock operation or an alarm.

• Versatile. The AP1003 can supply power at either 12 or 24V DC for electrical or magnetic locks. This power supply can be monitored continuously for short circuits and voltage variations. An alarm signal can be generated in the event of any sabotage attempt.

Protocols

The AP1003 can handle all protocols on the market today. Data (from cards) is processed using special protocols, such as Omron or Wiegand, independently of the method used for reading.

Status indication and self-testing

All relevant status information is shown in a clear and comprehensive way with LED indicators. This enables you to check the status and operation of the AP1003 at a glance. Moreover, the AP1003 is equipped with ALT mode, a local self-testing function that checks the connected contacts, antenna and locks. This way, you can always check whether everything is properly connected and working, even when the network connection is not available. After completion of the local self-test, the AP1003 automatically returns to operational mode.

Ease of installation and management

The AP1003 reader interface can be mounted on a DIN rail and it is hot-swappable. On installation, or in the event of a malfunction, it is simple to check whether modules are working correctly or need replacing. After a brief and basic training session, your technical staff can install the hardware

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and check that the connections are operational. This can be done even when the network is not available. Because the status of the AP1003 can be viewed and analysed remotely, malfunctions can be restored faster and more efficiently.

Interface for external systems

The second RS232 interface makes it possible to communicate with external systems. For example, the AP1003 reader interface can be combined with PIN code terminals and biometric equipment to read the card user's fingerprint, handprint, face or iris.

A suitable reader for every situation

Apart from the AP1003 Reader Interface, AEOS supplies a complete range of readers for various applications. These include the AP1002 Hands-free Reader with a range of up to 150 cm, the AP1001 Proximity Reader with a range of up to 40 cm, the AP1007 Mifare Reader, the AP1009 DuoProx Reader (for monitoring 2 doors or for secure and easy entry and exit registration) and the AP1005 MaXS Hands-free Reader, which combines hands-free use with multiple DES encryption.

Technical specifications AP1003

Product number		9836020
Detection range		Differs per reader
Housing		Aluminium and plastic
Dimensions		230 x 126 x 70 mm³ (LxWxH) - excl. DIN rail
Interface		2 x RS232, 2 x 3 x 0.25 mm², shielded; max. cable length 15 metres
Weight		~600g
Temperature		Operating temperature: 0 - 55ºC; storage: -30 - 65ºC
Power consumption		250 mA maximum, excluding lock
Cabling	AEbus	Max. 5 m; 300 m maximum with AX2002 AEbus extender (powered)
	AEbus cable	2 x 2 x 0.5 mm², shielded
	Contacts and sensors	Max. 100 m, n x 0.25 mm²
	Antenna connection	Max. 50 m, 5 x 0.25 mm², shielded
Inputs		Four; monitored, freely definable, intended for potential free contact
Outputs		Two; potential free NO / COM / NC contact with configurable functions;
		Out1 monitored. + 12V DC / 24 V DC switchable, max. 0.5A
Cards and readers		Barcode, HID, Mifare, Wiegand, Omron and others
Extra connection(s) for acoustic or optical signalling		1 x 5V DC and 1 x 12V DC

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