

AP1001 Proximity Reader

The AP1001 Proximity Reader is a reader module that can be used with all Nedap Proximity Antennas for secure reading of all contact-free Nedap cards. The functionality of the AP1001 can be easily configured using software components to match your specific requirements, now or in the future.

- Four freely programmable digital inputs
- Two configurable relay outputs
- Monitored inputs and outputs
- Additional RS232 interface



Convenient access control

With this innovative and user-friendly access control concept, the access card no longer has to be swiped through a reader or held against it. Instead, it is automatically recognised and read as soon as it comes within the connected antenna's 40- cm range.

Advanced security technology

Our advanced solutions place the sabotage-sensitive active element of the reader on the secure side of the entrance, thus providing it with maximum protection against manipulation, and safeguarding data transfer. On the unsecured side, there is only an antenna with an LED indicator. The AP1001 can detect and report any attempt to sabotage the antenna. The AP1001 is equipped with four freely programmable digital inputs for the connection of sensors and contacts, such as a door contact or a 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 operation, alarm signals and so on.

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 AP1001 at a glance. Moreover, the AP1001 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 AP1001 automatically returns to operational mode.

Reliable status checks and reports

The operational status of the inputs and the output (relay 1) is checked constantly. Any unforeseen changes can be signalled immediately by means of an alarm. The system can record and display a variety of events, such as manual entry, sabotage attempts and short circuits.

Interface for External Systems

The RS232 interface makes it possible to communicate with external systems. For example, the AP1001 reader can be combined with PIN code terminals and biometric equipment to read the card user's fingerprint, handprint, face or iris.

Technical specifications

Dimensions	230 x 126 x 70 mm (LxWxH)
Weight	~0,6 kg
Housing	Aluminium and plastic
Temperature range	Operating: 0 - 55 °C; Storage -30 - 65 °C
Relative humidity	10% to 93% (non-condensing)
Card credentials	Nedap cards incl. ISO, XM, MaXS, NeXS
Detection range	Up to 40 cm (depending on antenna and environment)
Supported antennas	Nedap antennas, incl. TransIT readers
Additional Interface	RS232 (e.g., for verification)
Inputs	4; monitored, freely definable, intended for dry contact
Outputs	2 relays; free definable, potential free (NO / NC) Relay 1: monitored, 12 VDC / 24 VDC switchable, max. 0,5 A 2 LEDs: (e.g., for red and green, max 20 mA)
Power	AEbus (27 VDC), 150 mA (excluding lock)
Cabling	AEbus: Max. 5 m; 5 x 0,5 mm ² (outside box: shielded) Max. 300 m; 2 x 2 x 0,5 mm ² shielded using AX2002 Antenna: Max. 50 m; 5 x 0,25 mm ² shielded Contacts and sensors: Max. 100 m; n x 0,25 mm ²
Extra Power outputs	1 x 5 VDC (max. 100 mA) and 1 x 12 VDC (max. 100 mA)

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Subject to change without prior notification