

AP6003 IP Reader Interface

The AP6003 IP Reader Interface is the first of Nedap's new range of IP Access Controllers. The AP6003 is a fully transparent IP reader that communicates with an AEpu via Ethernet instead of the AEBus, providing a one-tier solution. The unit can be powered over Ethernet (PoE) or by a traditional power supply. The AP6003 can control two doors and has a fall back mode to guarantee basic access control even when the network is down.

- IP Access Controller
- Power over Ethernet (PoE)
- Controls two doors
- Fall back mode available (AEOS 2.3)
- 4 digital inputs, monitored, free definable
- Integrates a variety of cards into one system
- Suitable for commonly used interface technologies, such as Wiegand, Omron, RS485 and RS232



Flexibility

This new Nedap unit offers even more flexibility. Clients can still opt for the traditional AEOS solution of using highly reliable AEBus for the communication between the AEpus and the reader modules. But now Nedap's new AP6003 makes it possible to choose a full Ethernet network solution where all communication, including that from the AEpu controllers to the reader interface modules, is over IP.

Communication over IP

The advantages of using IP-based communication are greatest when customers decide to use their existing IP infrastructure. The cost of a security system is partly determined by the cost of installing and maintaining the infrastructure. Saving on infrastructure can mean cost reductions of up to 30%. Hence, the new AP6003 can help customers optimize their investments.

Power supply

The power for this unit can be supplied over Ethernet. Up to 500 mA of 12 volt DC power is available for locks and 200 mA for external readers. The AP6003 operates on just one CAT5/6 cable, preventing the usual bundle of wires dangling from a controller. It is also possible to use a separate power supply unit.

Fall Back Mode

The AP6003 will be equipped with a fall back mode (AEOS 2.3). If activated, this mode guarantees basic access control at all times, even when the network is down. This Fall Back mode offers standard access control based on fixed settings.

Interfacing

The AP6003 is suitable for Wiegand, RS232 and RS485 interface technologies. With the right firmware the AP6003 can handle almost all current protocols (e.g. Omron, Wiegand). Because AEOS recognizes each type of badge separately, badges such as Mifare or HID can be integrated safely and easily into the system.

Ease of installation and configuration

The AP6003 can be mounted directly on the wall. Technical staff can install the hardware, configure the AP6003 via AEmon and immediately check if the connection is working properly.

See overleaf for technical specifications >>

Technical specifications AP6003 IP Reader Interface

Product number	9855750		
Housing	Aluminium and steel		
Dimensions	230 x 205 x 70 mm, excl. DIN rail		
Weight	~800 grams		
Power input	Power over Ethernet (PoE) IEEE 802.3af	External 24 VDC / 750 mA	
Power Supply	Lock	12VDC 500mA / 24 VDC 250mA	12VDC 500mA / 24 VDC 500mA
	Reader	12 VDC 200mA 12 VDC 200mA	
Environment	Temperature	Operating: 0 – 55 °C, Storage -30 – 65 °C	
	Relative Humidity	10 - 93% Non condensing	
Cabling	Inputs: 2 x 0,25 mm ² , max cable length: 100 meter		
	Ethernet: Cat 5/6, max 100 meter		
	TTL: 3 x 0,25 mm ² , max 50 meter		
	RS232: 3 x 0,25 mm ² , max 15 meter		
	RS485: 2 x 2 x 0,25 mm ² , max 1000 meter		
Inputs	4 inputs, monitored, free definable, intended for dry contact or open collector		
Outputs	2 relay outputs, NO/NC, dry contacts		
Reader Interfaces	2 x RS232/485		
	2 x Wiegand/Omron		

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