AEOS Intrusion I/O unit AP3006

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Specification Sheet

The Intrusion I/O Unit can be connected to the Intrusion Base Panel. The panel includes the AP3006 module to connect up to 16 supervised sensors and contacts to the system.

- Certified in accordance with EN50131 certified components
- Expansion unit for Intrusion base panel
- I/O unit with 16 inputs and 10 outputs
- Freely configurable EOL (end of line) resistors
- Interface for intrusion keypad with LCD screen

Product specifications

- Complies with EN50131 certified components grade 3 standard
- AEbus isolated
- 16 x supervised inputs (EOL values selectable)
- 2 relays, 8 open collectors
- Interfaces 1 x RS485
- Power input 115-230 VAC = 24-27VDC

Unlimited scalability

AEOS intrusion detection is the most scalable system on the market. Using AEOS, you can add unlimited new users, zones and locations, anywhere in the world. The system is not only supremely scalable, it is also very flexible in other respects. For example, you can easily modify the authorizations needed to switch the system on and off; for added security, you can combine PINs with cards, add a 4-eyes requirement, or include biometric verification.

Specifications AP3006 (article no. 9850090)

Dimensions	230 x 202 x 55 mm
Weight	± 2100 gr
AEbus	AEbus communication and Power 24-27 VDC SELV (80-700mA own consumption) Isolated
Isolated Bitrate	high/low
Bitrate	high/low
Battery back-up	• Controlled and checked by AP3006, indicators for 'Battery Low' and 'Battery Powered' • Loading batteries by external power supply
Environment	Temperature: Operating -10 - 55 °C · Storage -30 - 65 °C Relative humidity: 10 - 93% non-condensing
Power output	Sensors: 4 x 12 VDC ± 10% max 200mA (each output) Reader: 12VDC ± 10% max 200mA (each output)
Inputs	• 16: intended for dry contact or open collector (using open collector is not advised when using multi states on one input) optional supervised (by software, EOL value selectable, or 2 x 4k7 as default) • Tamper: intended for dry contact • AC_OK and BAT_LOW: dry contact or open collector

Outputs	• 2 dry contact (normally open, common, normally closed)
	• Contact ratings (suitable for switching inductive loads, clean, relay contacts
	  • Switching voltage: 24VAC, 30VDC (max 60 W)
	  • Continuous current: 2A (AC and DC)
	  • Switching current: 2A (AC and DC)
	  • Contact lifetime: min 100.000 times at given ratings
	• 8 open collector outputs (open drain Mosfets with internal power protection), max 1000 mA
	
	'depending on connected device'

Indications	Status indications for sensor input (red), sensor power (green), outputs (green) battery status, ID and reader status (green)
Communication	2* RS485 (+12V, A, B, GND) for Nedap reader connections
Lead battery backup	Only checking, loading regulated by dedicated power supply

Cable specifications

Communication	• AEbus: only isolated (including power): 3 x 2 x 0,5 mm² shielded, max cable lenght 1000 meter • Only isolated (CL, CH, CGND): 2 x 2 x 0,5 mm² shielded, max cable lenght 1000 meter • Isolated+Non Isolated: 5 x 0,5 mm² shielded, max cable lenght 5 meter • Isolated+Non Isolated + AX2002: 2 x 2 x 0,5 mm² shielded, max cable lenght 300 meter Cable shield to metal case, recommended cable impedance: 120 Ohm • RS485: 2 x 2 x 0,25mm² shielded, max cable lenght: 1000 meter
Inputs	X x 0,25mm², max cable lenght: 100 meter, cable capacity <= 100pF/meter (depending on connected sensor)
Outputs	2 x 0,25 mm² shielded, max cable lenght: 1000 meter
More information	Contact your local Nedap supplier or check our website www.nedapsecurity.com