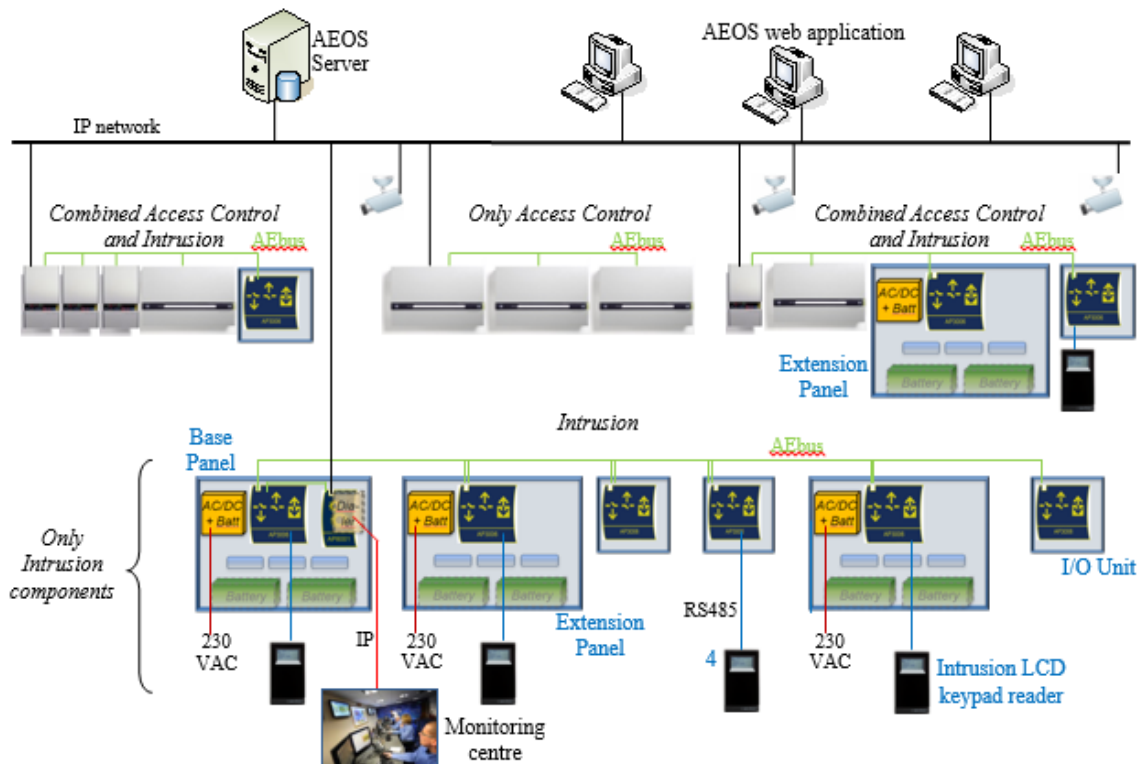


Intrusion Panels Base Panel & Extension Panel

1. General

Intrusion panels are part of the AEOS Intrusion system. The Intrusion Base Panel can be connected to the AEOS server over IP or be used as standalone. Intrusion Extension panels are connected by AEbus to an AEpu. Both panels are using the AP3006 for I/O.



The AP3006 based Intrusion components can be added directly to the IP-network (*Intrusion Base Panel*) or to an existing AEpu by AEbus (*Intrusion Extension Panel* and *Intrusion I/O Unit*). For local functions (e.g., arming and disarming) the *Intrusion LCD Keypad reader* is used. Via the dialler alarms are sent to the Monitoring centre, using an IP connection (with a GPRS link as backup).

1.1. Intrusion Base Panel

- Processing unit (AEpu)
- Room for dialler
- Intelligent power supply 230VAC
- AP3006 for sensing detectors and controlling power supply
- Room for batteries
- Ruggedized housing (including tamper switches)



1.2. Intrusion Extension Panel

Identical to the Intrusion Base panel, Without AEpu. (Of course the dialler will also never be placed)



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1.3. Certification

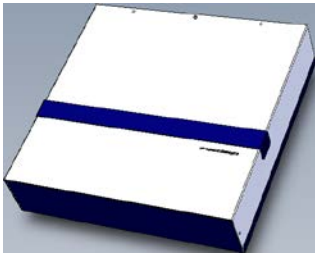
As standalone version AEOS Intrusion is certified according: *EN50131-3 grade 3, environmental class II*. The integrated version uses the same certified components (including same software at AEpu).

2. Panel Dimensions (470 x 460 x 110 mm)

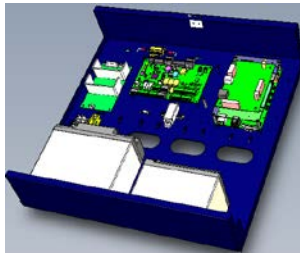
The Intrusion Base Panel and Intrusion Extension Panel share the same housing.

2.1. Opening Housing

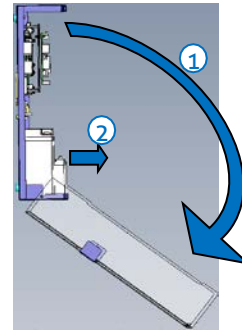
Release front cover release by one unscrewing the screw in middle. Top cover can be lift off. When closing top cover lift up bottom side a little.



Front view with cover closed

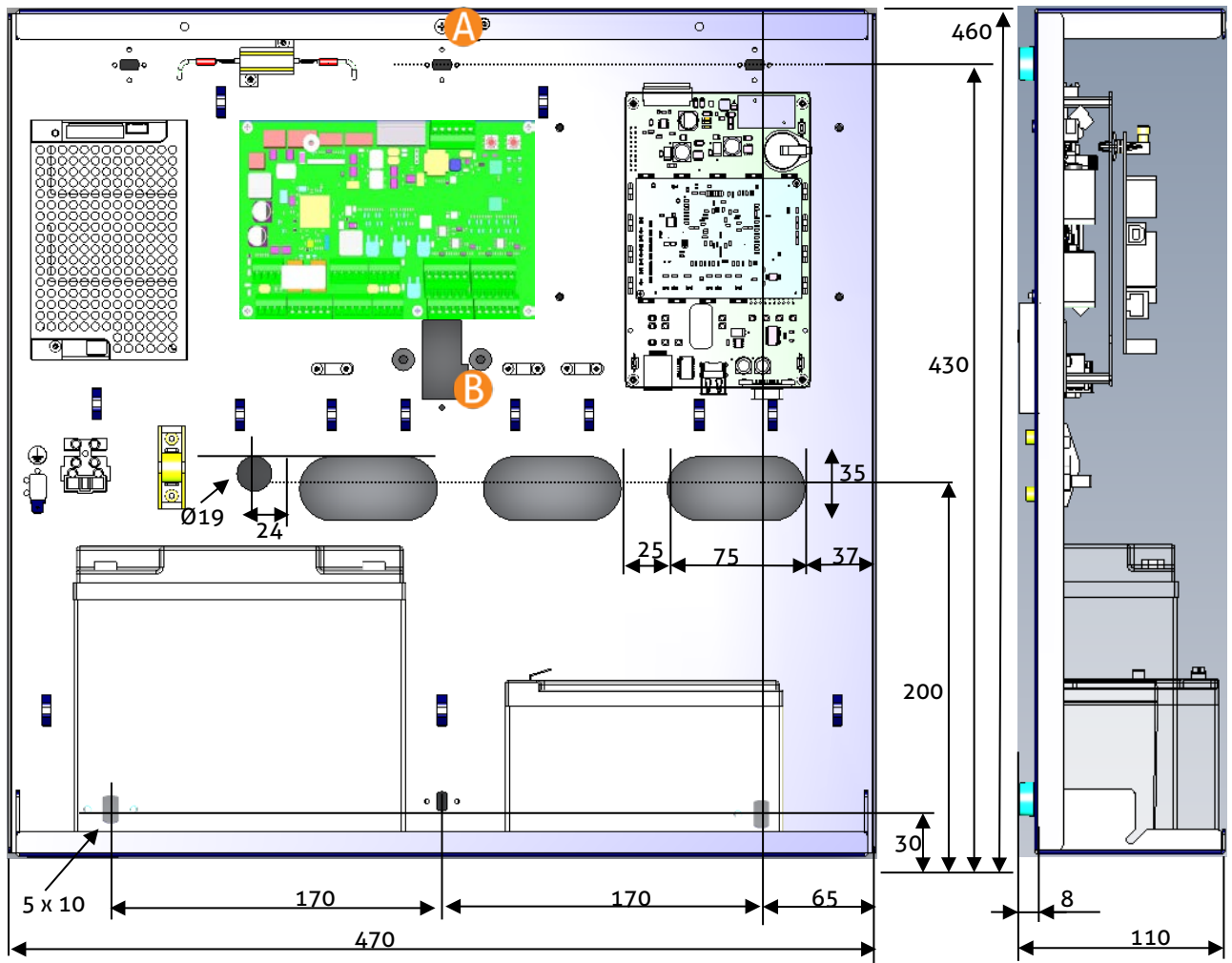


Front view with cover removed



Side view with cover opened

2.2. Overview Housing And Mounting Positions



2.3. Mounting the Panels

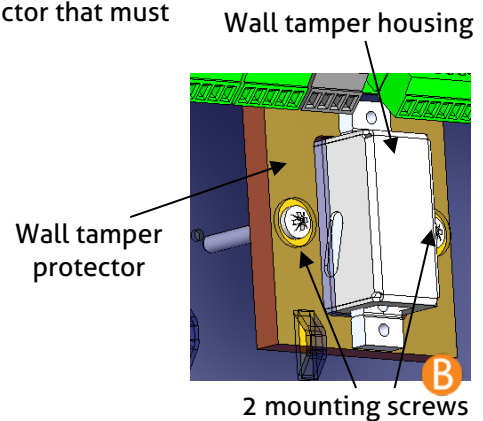


Pay attention to the (local) safety regulations.

The wall tamper switch is protected by an additional protector that must be mounted separately behind the panels.

Mounting instructions:

1. Make sure the wall is flat
2. Mount panel with only one screw in middle top
(point **A** in previous figure)
3. Line out the panel both horizontal and vertical
4. Mark mounting locations and cable outlets
5. Mark mounting points for 'wall tamper protector'
(point **B** in previous figure and figure beside)
6. Remove panel
7. Mount Wall tamper protector with 2 screws
8. Mount panel with at least 4 screws (or 6 for big batteries) at the mounting holes (5 x 10 mm)



3. Additional Information

More information about installation and usage can be downloaded from the internet site. Depending on the usage (Stand alone or integrated into the AEOS system) different documents are available:

- | | | |
|--|---------------------|------------------------------|
| • <i>AEOS_Intrusion Manual_E</i> | Integrated version: | installation and user manual |
| • <i>ap3006_installation-sheet</i> | Both versions: | AP3006 detailed info |
| • <i>invexs170_installation-sheet</i> | Both versions: | LCD keypad reader info |
| • <i>aeos-intrusion-sa_installation-manual</i> | Standalone version: | installation manual |
| • <i>AEOS_IntrusionSA_UserManual_E</i> | Standalone version: | user manual |



With PMS version D of the AP3006 PCB an additional reader channel is added.

SPECIFICATIONS INTRUSION BASE PANEL (article no. 9962972) and INTRUSION EXTENSION PANEL (article no. 9962999)

Dimensions:	470 x 460 x 110 mm	Weight:	± 9500 gr
AP3006 PCB:			
AEBus:	AEBus communication and Power 230 VAC, + 10%, - 15%, 47 - 63 Hz 1,2 A @ 230 VAC	Isolated, Bitrate: (+ non isolated: only for internal use)	high/low
Environment:	Temperature: Operating: 0-55 °C, Storage: -30-65 °C	Relative humidity: 10-93% non-condensing	
Power Output:	Sensors 4 x 12VDC ± 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)	
	Contact lifetime:	min 100.000 times at given ratings	
	8 Open Collector outputs (Open drain Mosfets with internal power protection), max 1000 mA		
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		
Battery backup:	Controlled and checked by AP3006, indicators for Battery Low and Battery Powered Loading batteries by external power supply		
Lead battery backup:	Only checking, loading regulated by dedicated power supply		

CABLE SPECIFICATIONS

Communication	AEBus: only Isolated (including power): 3 x 2 x 0,5mm ² shielded, max cable length: 1000 meter
	only Isolated (CL,CH,CGND): 2 x 2 x 0,5mm ² shielded, max cable length: 1000 meter
	Isolated+Non Isolated: 5 x 0,5mm ² shielded, max cable length 5 meter
	Isolated+Non Isolated + AX2002: 2 x 2 x 0,5mm ² shielded, max cable length 300 meter
	Cable shield to metal case Recommended cable impedance: 120 Ohm
	RS485: 2 x 2 x 0,25mm ² shielded, max cable length: 1000 meter
Inputs:	X x 0,25mm ² , max cable length: 100 meter, cable capacity <= 100pF/meter (depending on connected sensor)
Outputs:	2 x 0,25mm ² , max cable length: 100 meter (depending on connected device)

MORE INFORMATION: Contact your local Nedap supplier or check our website www.nedapsecurity.com