

Advisor Advanced ATSx500A Installation Sheet

EN

Figure 1: Small metal housing (-SM)

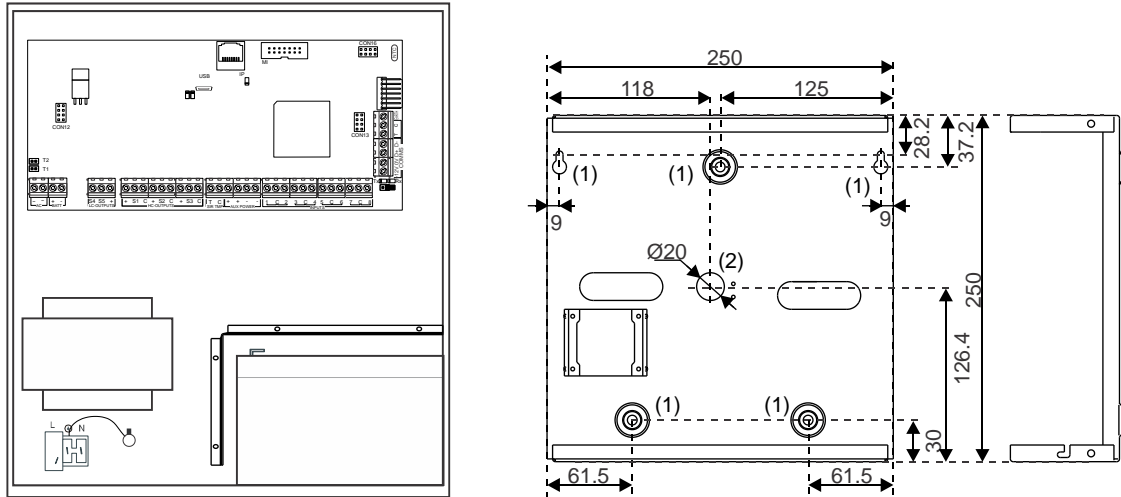


Figure 2: Medium metal housing (-MM)

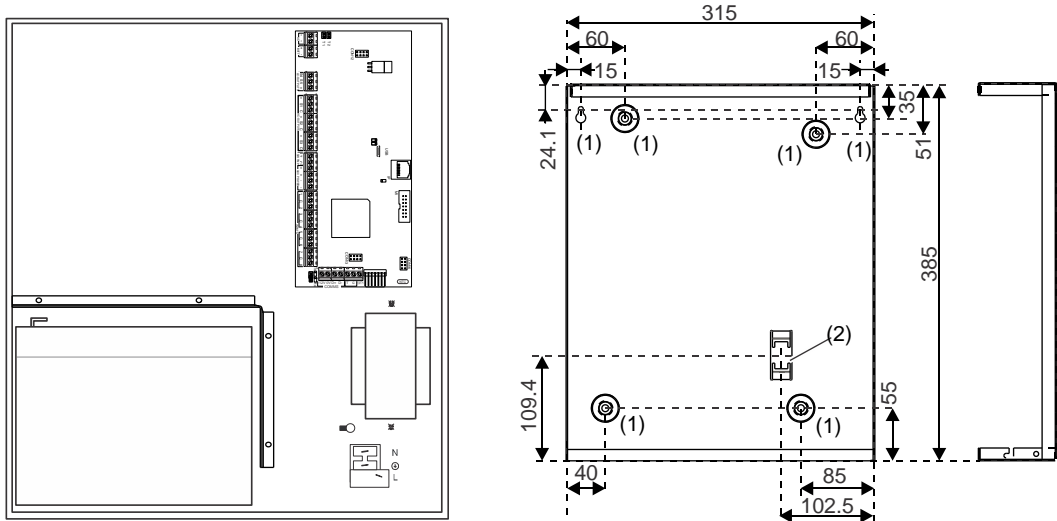


Figure 3: Large polycarbonate housing (-LP)

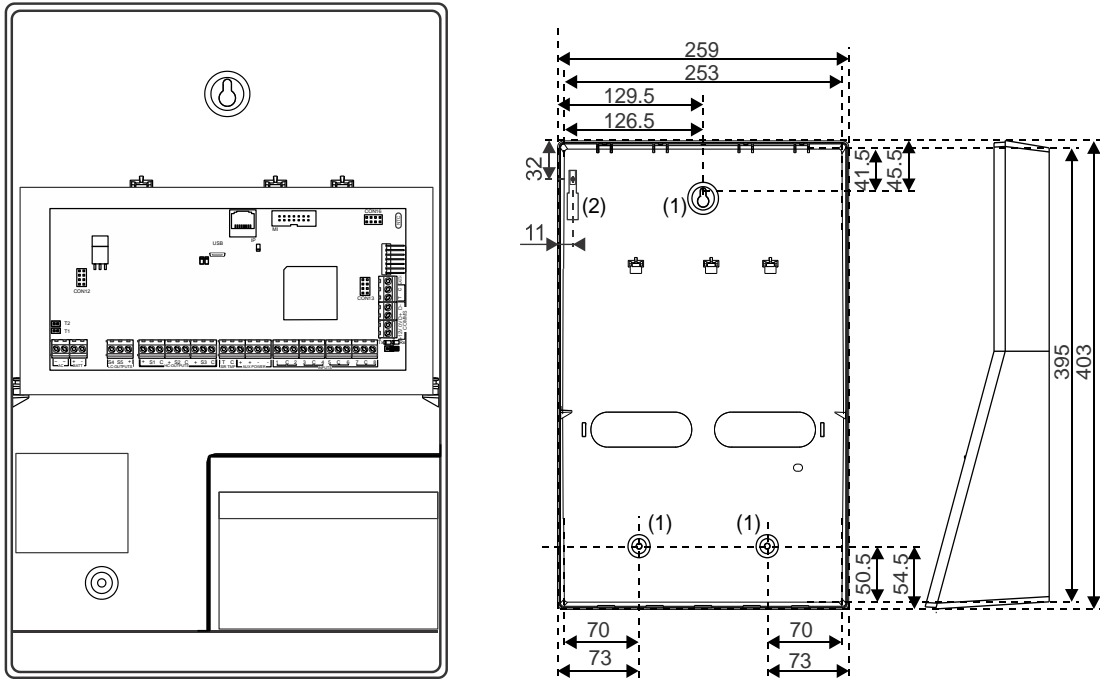


Figure 4: Medium metal housing (-MM+)

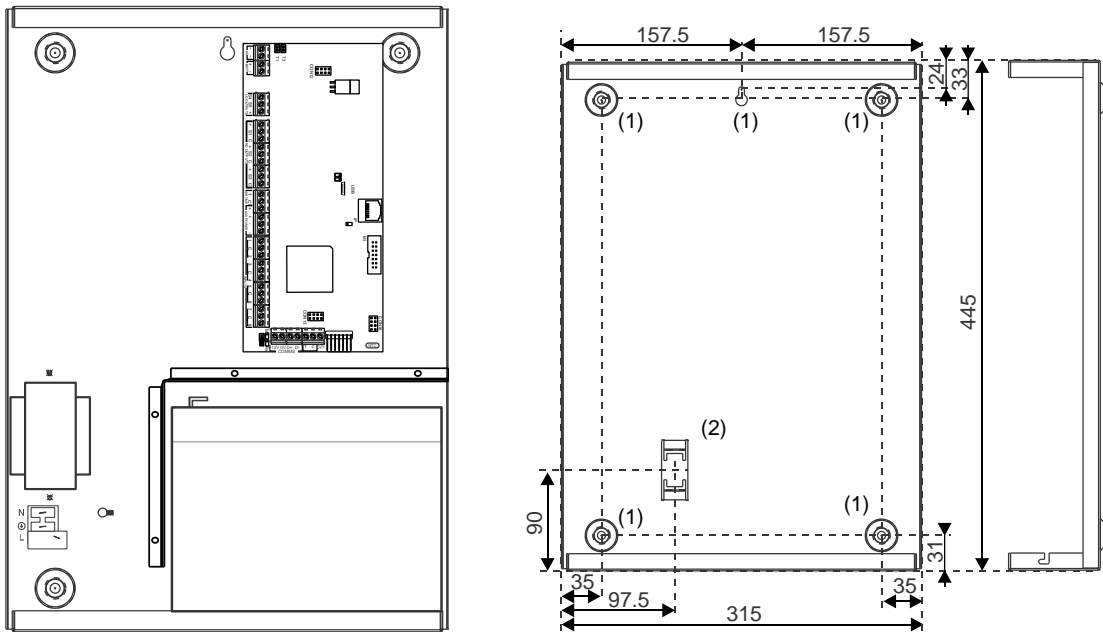


Figure 5: Large metal housing (-LM)

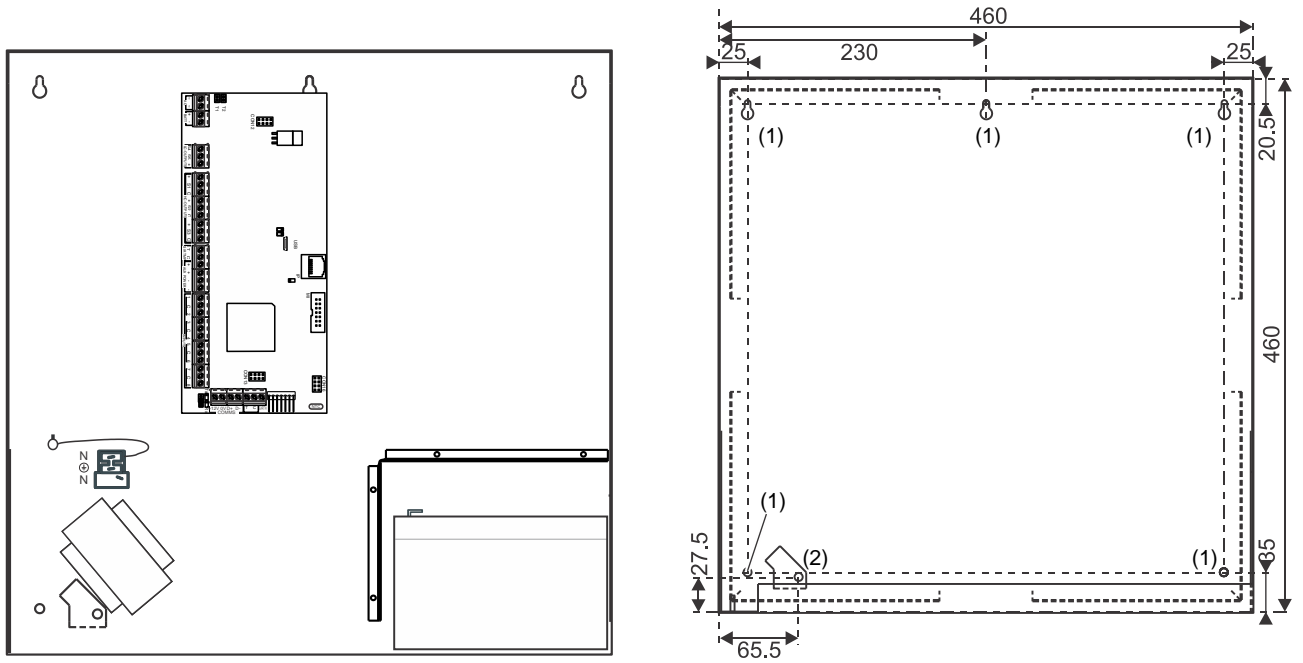


Figure 6: Medium (MM and MM+) and large housing (LM) pry-off tamper mount

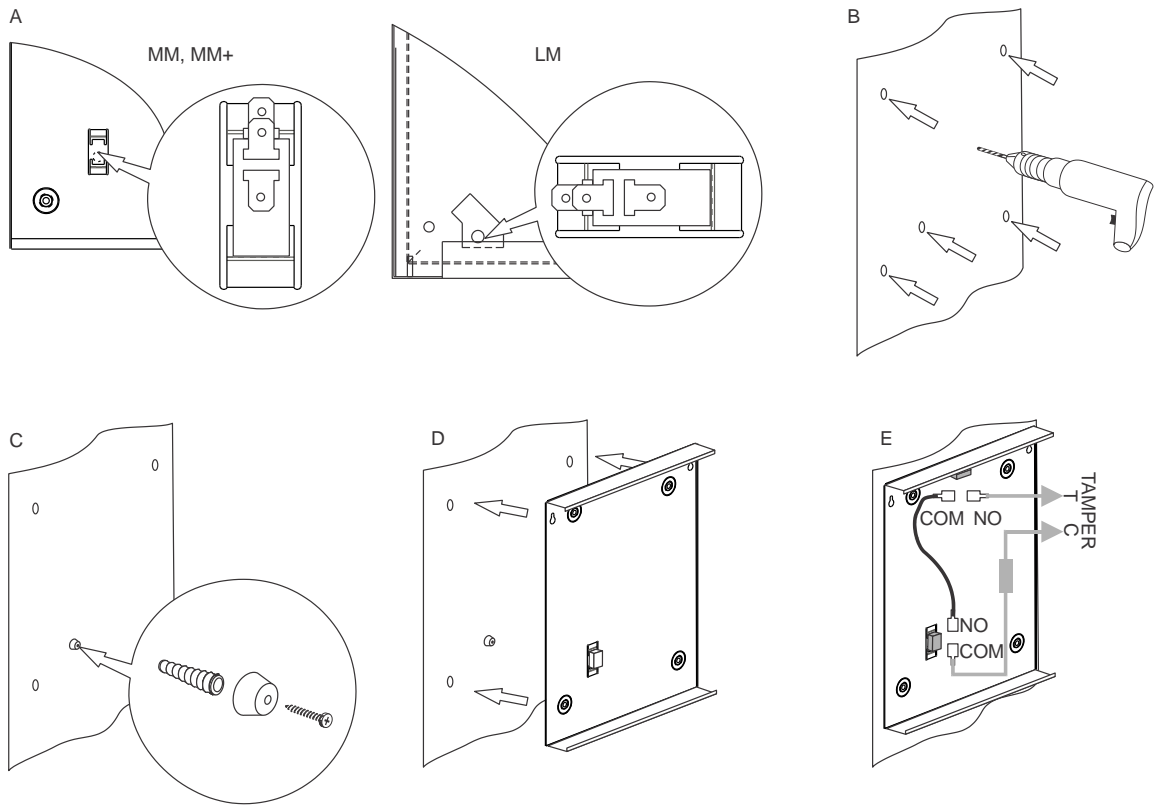


Figure 7: Large plastic housing (LP) pry-off tamper mount

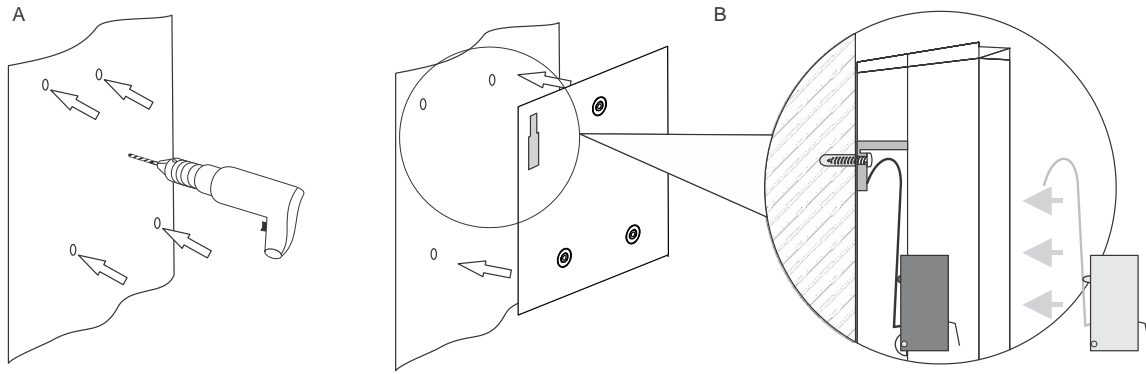


Figure 8: Advisor Advanced ATx500A(-IP) PCB layout

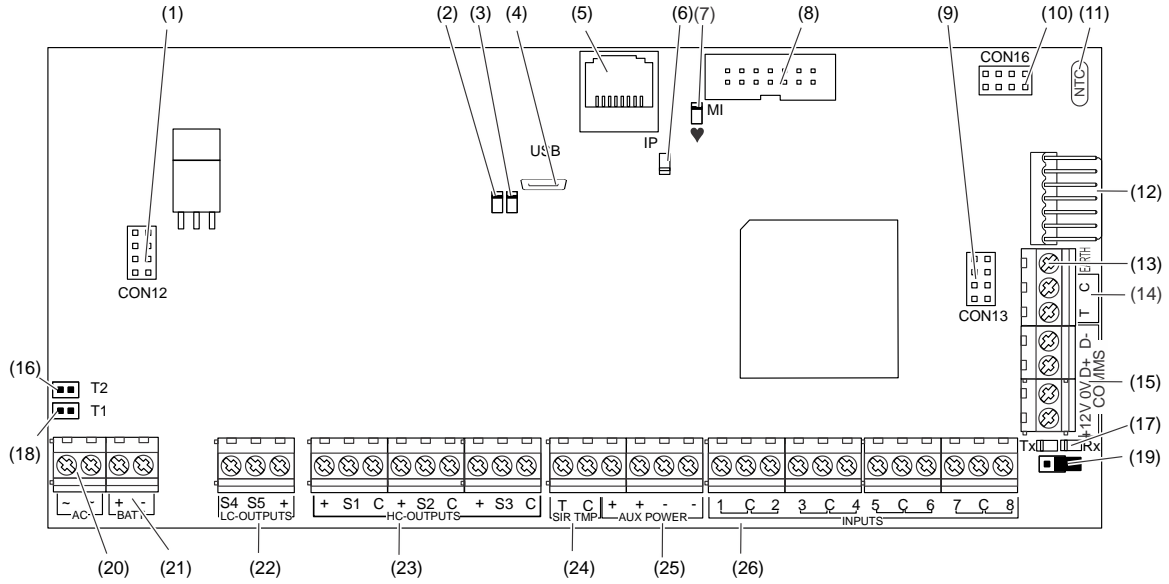


Figure 9: System shielding

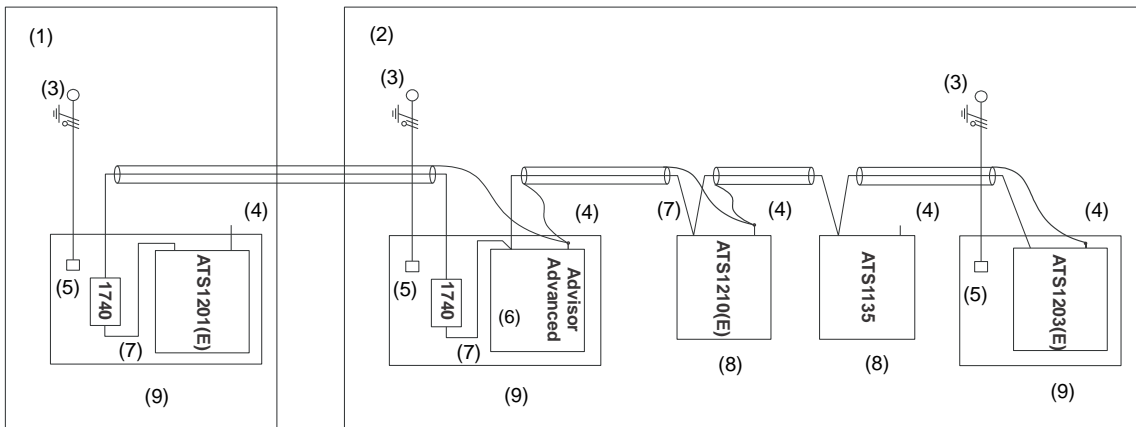


Figure 10: System databus wiring

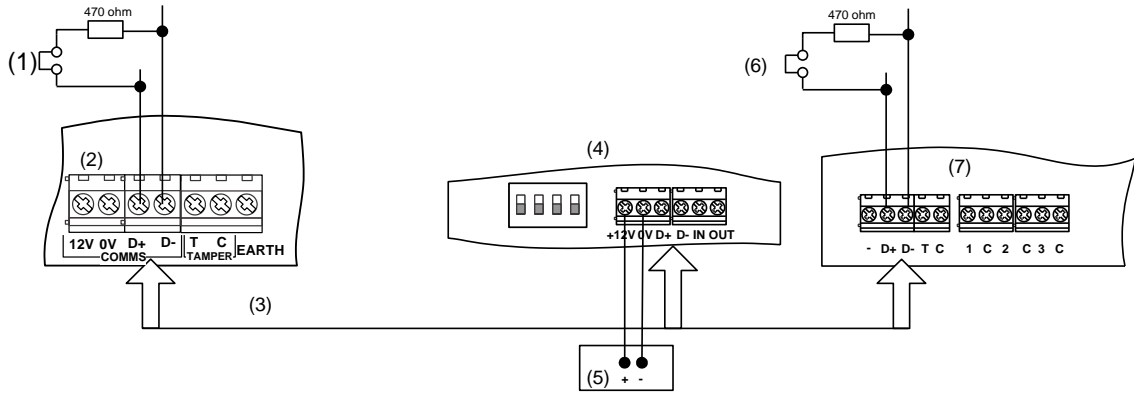


Figure 11: Single loop examples

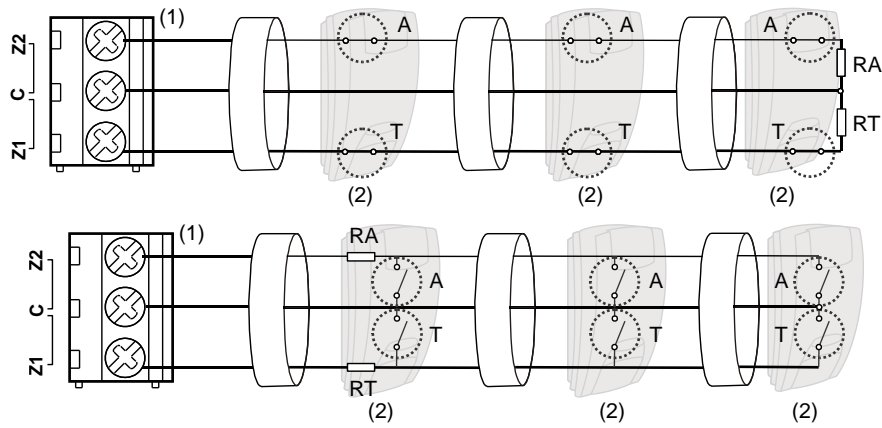
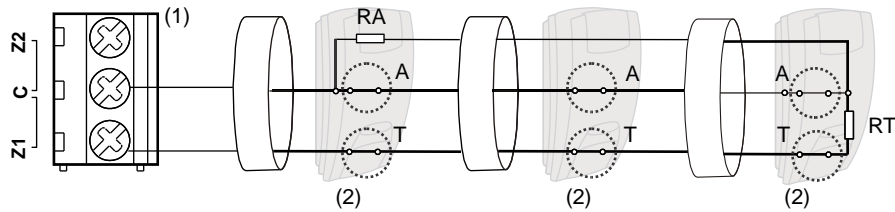


Figure 12: Dual loop example



EN: Installation Sheet

This Installation Sheet provides general information on Advisor Advanced ATsx500A installation. For the complete information on door controller installation and programming, see *Advisor Advanced ATsx500A Installation and Programming Manual*.

Important note

This manual provides information for all Advisor Advanced and Advisor Advanced-IP control panels in all variations. "Advisor Advanced control panel" refers to any variant of the Advisor Advanced control panels, unless specifically stated otherwise.

List of panel variants

Table 1: List of ATsx500A(-IP) panel variants

Model	Enclosure	Dimensions (mm)	Weight (kg)
ATS1500A-MM	Metal	MM, 315 x 388 x 85	5.2
ATS1500A-IP-MM	Metal	MM, 315 x 388 x 85	5.2
ATS1500A-SM	Metal	SM, 250 x 250 x 86	2.8

Model	Enclosure	Dimensions (mm)	Weight (kg)
ATS1500A-IP-SM	Metal	SM, 250 x 250 x 86	2.8
ATS1500A-LP	Plastic	LP, 257 x 400 x 112	2.6
ATS1500A-IP-LP	Plastic	LP, 257 x 400 x 112	2.6
ATS3500A-MM	Metal	MM, 315 x 388 x 85	5.2
ATS3500A-IP-MM	Metal	MM, 315 x 388 x 85	5.2
ATS3500A-LP	Plastic	LP, 257 x 400 x 112	2.6
ATS3500A-IP-LP	Plastic	LP, 257 x 400 x 112	2.6
ATS4500A-IP-MM	Metal	MM+, 315 x 445 x 88	5.4
ATS4500A-IP-LM	Metal	LM, 465 x 480 x 160	10.9

Notes

- Not all variants may be available.
- Weight does not include batteries.

Limitation of liability

To the maximum extent permitted by applicable law, in no event will Carrier be liable for any lost profits or business opportunities, loss of use, business interruption, loss of data, or

any other indirect, special, incidental, or consequential damages under any theory of liability, whether based in contract, tort, negligence, product liability, or otherwise. Because some jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages the preceding limitation may not apply to you. In any event the total liability of Carrier shall not exceed the purchase price of the product. The foregoing limitation will apply to the maximum extent permitted by applicable law, regardless of whether Carrier has been advised of the possibility of such damages and regardless of whether any remedy fails of its essential purpose.

Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, Carrier assumes no responsibility for errors or omissions.

Warnings and cautions



Caution: Hot parts! Risk of burn. Burned fingers when handling parts. Allow parts to cool down before handling.



WARNING! Dangerous voltage! Risk of injury or death. Fuse may be in the neutral. The mains should be disconnected to de-energize the phase conductors.



WARNING! Risk of fire, explosion, or safeguard malfunction if the battery is replaced by an incorrect type. Disposal into fire, placing into a hot oven, leaving in an extremely high temperature surrounding environment, subjecting to extremely low air pressure, mechanically crushing or cutting of a battery can result in an explosion or leakage of flammable liquid or gas.



WARNING! If the housing cover is removed, there is no safeguard against electrically caused fire that might occur during system malfunction.

The housing cover must be reassembled according to this installation instruction after each interference by a user.

General installation information

Advisor Advanced housings

The housings with mounting holes (items 1) are shown in figures below.

Item 2 indicates the pry-off tamper wall stub location.

All dimensions are given in mm.

For more details on connections and connecting devices to the Advisor Advanced, see “Cabling” on page 8.

For details on connecting pry-off tampers, see “Pry-off tamper mounting” below.

Pry-off tamper mounting

For medium (MM and MM+), and large housings (LM), follow the steps in Figure 6. For large plastic housing (LP), follow the steps in Figure 7.

Caution: Once the ATS-MM-TK tamper assembly has been fitted, the wires coming from the tamper microswitch must be wrapped around and secured to one of the nearby fixing pillars, so that there is no slack left in the tamper wiring between the microswitch and the pillar it is wrapped around.

Advisor Advanced layout

Figure 8: Advisor Advanced ATSx500A(-IP) PCB layout

- (1) Interface to output expander
- (2) USB fault LED
- (3) USB power LED
- (4) USB connector (micro-A/B type)
- (5) Ethernet RJ-45 connector (ATS-IP only)
- (6) IP communication LED (ATS-IP only)
- (7) Heartbeat LED
- (8) MI-bus connector for MI devices
- (9) Interface to input expander
- (10) Interface to PSTN module
- (11) Optional: enclosure ambient temperature sensor
- (12) ATS670 databus expander connector
- (13) Panel earth terminal
- (14) External tamper switch
- (15) RS-485 system databus connections
- (16) T2: Device firmware upgrade mode (DFU)
- (17) RS-485 system databus communication LEDs
- (18) T1: Restores installer default PIN
- (19) System databus termination jumper
- (20) AC power supply terminal
- (21) Battery connection
- (22) Low current (OC) outputs
- (23) High current outputs
- (24) Siren tamper switch
- (25) 12 VDC auxiliary power output
- (26) Zone inputs



Maintenance

The intrusion control panel is only allowed to be serviced by dedicated service personal. The screw of the housing is intended to protect the product from unintended use.

For metal housing, the screw is already installed out of the box. For plastic housing, the screw, available inside housing, should be mounted before first time use.

To open the housing, remove the housing screw and open the cover.

After the maintenance, replace the cover and fix it with the cover screw.



Mains power connection

Electrical installation should be carried out by a skilled person.

Solid insulation of the building mains cables should meet the technical and the environmental specifications of the equipment.

Wire insulation of cables connected to the equipment must conform to IEC 60332-1-2 and IEC 60332-1-3 or IEC 60332-2-

2, depending on the wire cross-sectional area, or IEC TS 60695-11-21, regardless of cross-sectional area.

Alternatively, such wires must comply with UL 2556 VW-1. Appropriate wire cross-sectional area must be selected to withstand 2 A current.

Use the mains connector terminal for connecting the AC mains supply. A fixed cable or flexible mains lead to earthed mains outlet can be used. When fixed wiring is used, insert a dedicated all-pole circuit breaker in the power distribution network. In all cases the mains connection must comply with local regulations.

Always connect the building protective earthing wire and ensure the connection is reliable. See also "Earthing" on page 8.

In case the panel is connected to the power grid using fixed wiring, it is recommended that earth wire is longer than line and neutral.

Do connect incoming line and neutral to mains connection block according to the label. This assures that the line will be protected by the mains fuse, and that service can be done by service personnel.

Make sure that before connecting the mains power, the mains power supply is disconnected.

When installing the mains power, use strain reliefs such as cable ties and coupling PG16s to ensure proper wiring and minimize the risk of wire damage during installation and use. If product entry hole breakouts are used, it is required to also make use of UL-V2 (or better) approved PG16 cable gland. Refer to PG16 specification to meet minimum and maximum cable diameters.

In all cases local regulations must be observed.

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Battery installation

WARNING! Using incorrect types of batteries may cause risk of fire, explosion or chemical leakage. Use only types of batteries listed in "Specifications" on page 9.

To install the battery, do the following:

1. Make sure that your product settings allow you to open its cover without starting the tamper alarm.
2. Make sure that the mains power is off and remove the cover.
3. If necessary, remove the battery shield, unscrewing four screws.
4. Connect the battery, sliding the product wires on the wire connectors. Note that depending on the battery model, the connectors can be located differently.
5. Mount the battery shield using four screws.

WARNING! The battery shield must be mounted during normal device operation.

In case a battery BS131 (12 V / 18 Ah) in an ATS1640 housing is used in combination with ATS7700 PSTN expander board, it is required to have double insulation in place. Use adequately insulated wires for PSTN cabling, and make use of heat shrink.

Battery replacement

This product may contain one (or more) sealed, rechargeable, BS-type lead-acid battery. Because removing a battery may affect the product's configuration settings or trigger an alarm, only a qualified installer should remove the batteries.

To remove a battery:

1. Make sure that your product settings allow you to open the cover without starting the tamper alarm.
2. Switch off the mains power, if necessary, and remove the cover.
3. If necessary, remove the battery shield, unscrewing four screws.
4. Disconnect the battery. Note that depending on the battery model the connectors may be located differently.
5. Remove the battery from the holder.

Dispose of the battery as required by local ordinances or regulations.

See the specifications for your product or contact technical support for information on replacement batteries.

Mounting

The unit is mounted with screws or bolts through the mounting holes in the rear section of the enclosure.



Important: When the product is mounted to the wall, assure that at least 3 times the weight of the product can be supported. The product weight is the product itself plus battery and accessories.

Ensure that the unit is mounted on a flat, solid, vertical surface such that the base will not flex or warp when the mounting screws and bolts are tightened.

Leave a 50 mm clearance between equipment enclosures mounted side by side and 25 mm between the enclosure and the sidewall.

The rechargeable battery must not be fitted until the control panel is secured to the fixing surface. Under no circumstances should the panel be transported with a battery fitted.

Take care that wire terminals are isolated. The use of cable ties to neatly secure cables is recommended.

WARNING! Use cables that comply with IEC 60332-1-2 and IEC 60332-1-3, or IEC 60332-2-2, or IEC TS 60695-11-21, or UL 2556 VW-1.

Use cables and connections that can withstand at least 2 A current.

General installation guidelines

The Advisor Advanced control panels have been designed, assembled, and tested to meet the requirements of current

relevant standards for safety, emission, and immunity to environmental electrical and electromagnetic interference.

If the following guidelines are followed, the system will give many years of reliable service.

In addition to the following guidelines, during the installation of the Advisor Advanced control panel, it is essential to follow any country-dependent local standard requirements applicable to the installation. Only a qualified electrician or other suitably trained and qualified person should attempt to wire this system to the AC mains or to the public telephone network.

- Ensure that there is a good earth available for the alarm system.
- Maintain a separation between low voltage and mains supply cables. Use separate points of cable entry to the control panel cabinet.
- If the upper and/or lower cabinet entry cable holes are used to route wiring into the control panel, always use a proper pipe fitting system by means of an appropriate conduit and junction box. For this purpose, use only materials of suitable flammability class (HB or better).
- For mains power connection, use the mains connector terminal either through a permanent wiring or a flexible mains cable to an earthed mains outlet. Always use cable ties to fix the mains cable at the dedicated fixing point provided near the mains terminal connector.
 - When installing permanent, fixed wiring, insert an easily accessible, dedicated all-pole circuit breaker in the power distribution network.
 - Never attempt to solder mains connection wires at the ends where they will be wired to the terminal connectors.
- Avoid loops of wire inside the control panel cabinet and route cables so that they do not lie on top or underneath of the printed circuit board. The use of cable ties is recommended and improves neatness of the wiring within the box.
- The battery used with this unit, must be made of materials of suitable flammability class (HB or better).
- Any circuit connected either directly to the onboard relay contacts or to the external relay contacts through the onboard electronic output must be rated as a SELV (safety extra-low voltage) operating circuit.
 - A mains switching relay must not be fitted inside the control panel cabinet.
 - Always place a suppression diode (e.g. a 1N4001) across the relay coil.
 - Use only relays with good insulation between the contacts and the coil.
 - Maximum cable length for open collector output connection may not exceed 30 m. For longer distances, use relay output expansion (for example, ATS624 four-relay expander).
- The minimum clearance between equipment closures is 50 mm (between equipment vents).
- Only use these units in a clean environment and not in humid air. Environmental requirements are given in "Specifications" on page 9.
- For the panel terminal connections, the recommended torque is 0,3 to 0,4 N·m. This torque setting is

independent from the AWG (thickness) of the wires used. A value of 0,4 N·m is also the maximum allowed torque for this connector.

Earthing

WARNING: The correct earthing procedures must be followed.

Earthing of one cabinet containing several devices

All devices designed for the system have earth connections via metal studs to the metal housing. Make sure that these metal studs make good connection to the housing (beware of paint). The earth connections of every piece of equipment in the system can be used for connecting the screen of shielded cables. Ensure that all internal protective bonding wires make reliable connection with the building protective earthing wire.

Earthing panels in a single building

In one building several cabinets or devices are earthed to a safety ground.

The safety ground for the building must be checked by a licensed contractor.

Earthing panels in more buildings

If the wiring extends to separate buildings, more than one common earth system will be used. Use ATS1740 isolator/repeaters to isolate the system databus. In this way the system is protected against variations in earth potential.

Shielding

The shielding of all shielded cables used in the system should only be connected at one side to one common earthing point in a building (see Figure 9). If a shielded databus cable is routed via more than one plastic device the shielding from incoming and outgoing cable must be connected.

In case the IP connection is used, take care that the Ethernet FTP cable remains within a single building. Do make use of a proper router or switcher to isolate Ethernet cables between various buildings.

Figure 9: System shielding

- (1) Building 1
- (2) Building 2
- (3) Mains power with local earth
- (4) Earth and shielding
- (5) Mains power connector
- (6) Advisor Advanced control panel
- (7) System databus
- (8) Device in plastic housing
- (9) Device in metal housing

Cabling

System databus preferred wiring

The terminator jumper (also called TERM link), or DIP switch must be ON, or a 470 Ω resistor must be fitted at each of the devices at the extreme ends of the daisy chained databus. In a star-wiring configuration, the TERM link is only fitted on the devices at the ends of the two longest system databus cable runs.

Figure 10: System databus wiring

- (1) TERM link fitted (first device on local databus).
- (2) Advisor Advanced control panel variants.
- (3) Preferred data cable type is WCAT 52 (two twisted pairs).
- (4) Advisor LCD keypad (TERM switch is set to OFF).
- (5) Separate 12 V power supply (required if keypad is more than 100 m from the nearest panel or expander. Connect the negative terminal of the power supply to the “-” wire of the databus).
- (6) TERM link fitted (last device on local databus).
- (7) Any remote expander like ATS1201(E) or ATS1210(E).

System databus connection

The system databus is used to connect remote expanders (to provide extra zones) and keypads to the Advisor Advanced control panel. Remote devices can be up to 1.5 km from an Advisor Advanced control panel.

Keypads and remote expanders must be connected via a shielded data cable with two twisted-pairs from the system databus connection (WCAT 52 is recommended).

We recommend that you use a separate power supply for a keypad when the distance between that keypad and the nearest device is more than 100 meters.

If the keypad is powered with a separate power supply, do not connect “+” from the system databus. Connect “+” of the local power supply to “+” on the keypad, and connect 0 volts from the power supply and 0 volts from the system databus to the keypad terminal marked “-”. The maximum number of devices allowed on the databus is given in “General features” on page 10.

Two system databuses (ATS4500A only)

Particular panel variants allow you to connect more bus devices by using a second system databus. To install another system databus, use ATS670 second RS485 LAN extension module.

System addresses of devices connected to the additional bus (BUS2) are determined by adding 16 to keypad physical addresses, and 15 to expander addresses. So, BUS1 handles keypads 1 to 16 and expanders 1 to 15, while BUS2 — keypads 17 to 32 and expanders 16 to 30.

Note: Door controllers can only be installed on BUS1.

Zone connection

The inputs are set up as standard EOL freely programmable zones. However, by programming the zones as dual loop, all zone inputs can be programmed to give a few states indication for the same zone.

Depending on the detector model, do the following to set up zones:

- Choose your EOL connection type.
- Program input mode.
- Set end-of-line resistor values.
- Configure anti-masking option.

Refer to *Advisor Advanced ATsx500A Installation and Programming Manual* for details.

Single loop zone wiring

In single loop zone wiring, two zones are required, one zone for alarm and one zone for tamper. The tamper contacts are wired in series with an EOL resistor.

Figure 11: Single loop examples

- | | |
|-------------------|----------------|
| (1) Zone terminal | (2) Detector |
| C Common terminal | A Alarm relay |
| Z1 Zone 1 input | T Tamper relay |
| Z2 Zone 2 input | |

Dual loop zone wiring

In dual loop wiring, one zone can detect a few detector states. At least two resistors are used to define alarm and tamper states. Depending on the programmed settings, there can be additional states defined as masking alarm or sensor fault. These states can be the following:

- Short (tamper)
- Active (alarm)
- Normal
- Masking
- Sensor fault
- Open (tamper)

Figure 12: Dual loop example

- | | |
|-------------------|----------------|
| (1) Zone terminal | (2) Detector |
| C Common terminal | A Alarm relay |
| Z1 Zone 1 input | T Tamper relay |
| Z2 Zone 2 input | |

Possible EOL connections and EOL resistor values are listed in *Advisor Advanced ATsx500A Installation and Programming Manual*.

Other manuals

See *Advisor Advanced User Guide* for more information on how to use the Advisor Advanced system.

See *Advisor Advanced Manager Manual* for more information on system management.

See *Advisor Advanced Installation and Programming Manual* for more information on system configuration and programming.

See *Advisor Advanced SMS Control Reference Manual* for more information on SMS commands.

Specifications

For a list of panel models see “List of panel variants” on page 5.

Mains power specifications

Mains input voltage	230 VAC +10%, -15%, 50/60 Hz ±10%
Current consumption at 230 VAC: ATS1500A(-IP) ATS3500A(-IP), ATS4500A-IP	150 mA max. 300 mA max.
Transformer output: ATS1500A(-IP)-SM/LP ATsx500A(-IP)-MM/MM+/LM ATS3500A(-IP)-LP	20 VAC, 31 VA 23 VAC, 58 VA 22 VAC, 53 VA
Transformer manufacturer and type ATS1500A(-IP)-SM/LP ATsx500A(-IP)-MM/MM+/LM ATS3500A(-IP)-LP	Aritech 1070366 Aritech 22-183 Aritech 22-167

Power supply specifications	
Power supply type	Type A per EN 50131-6 Type I per VdS 2115
Power supply voltage [1]	13.8 V \pm 0.2 V
Power supply current:	
ATS1500A(-IP)	1.10 A max. at 13.8 V \pm 0.2 V
ATS3500A(-IP)	2.10 A max. at 13.8 V \pm 0.2 V
ATS4500A-IP	2.65 A max. at 13.8 V \pm 0.2 V
Main board consumption (Alarm / Idle):	
ATSx500A	100 mA at 13.8 V \pm 0.2 V
ATSx500A-IP	150 mA at 13.8 V \pm 0.2 V
Maximum system current available [2]:	
ATS1500A	1000 mA at 13.8 V \pm 0.2 V
ATS1500A-IP	950 mA at 13.8 V \pm 0.2 V
ATS3500A	2000 mA at 13.8 V \pm 0.2 V
ATS3500A-IP	1950 mA at 13.8 V \pm 0.2 V
ATS4500A-IP	2500 mA at 13.8 V \pm 0.2 V
Auxiliary power output (AUX. POWER) [3]	13.8 V \pm 0.2 V, 1 A max.
Battery power output (BAT) [4]	13.8 V \pm 0.2 V, 2.5 A max.
Battery type	Lead acid rechargeable: [5] 7.2 Ah, 12 V nom. (BS127N) 12 Ah, 12 V nom. (BS130N) 18 Ah, 12 V nom. (BS131N) 26 Ah, 12 V nom. (BS129N) 36 Ah, 12 V nom. (BS134N)
Standby use battery life [6]:	
Typical	3 years under 20°C floating charge condition
Maximum	5 years
Cycle use battery life	200 cycles at 100% discharge 225 cycles at 80% discharge 500 cycles at 50% discharge
Battery cables type	Aritech 160319999-1
Maximum voltage at power supply, auxiliary power output and battery power output	14.5 V \pm
Battery low condition	From 9.5 to 10.5 V \pm
Battery test level [7]	11.2 V \pm
Minimum voltage (battery recharging) at power supply, auxiliary power output and battery power output [8][9]	9.45 V \pm
Maximum ripple voltage V, p- p [10]	100 mV typical, 300 mV max.
Overvoltage trigger value [11]	15.5 V \pm min.
Power unit failure voltage	<9.45 V for 10 s

- [1] The power supply voltage is monitored according EN 50131 Grade 3 and VdS-C regulations.
- [2] Current available for auxiliary power and battery charge outputs.
- [3] Maximum permanent current to power devices external to the control equipment in the absence of alarm conditions. The sum of the auxiliary and COMM power output current cannot exceed the maximum current specified in "Auxiliary current and battery capacity" on page 11.
- [4] Battery output provides battery shortcut protection (according to VdS requirements).
- [5] The housings applicable for particular batteries are specified in "Auxiliary current and battery capacity" on page 11.
- [6] High temperature and multiple charge cycles may greatly reduce battery life time. See the specifications for your battery for more information.

- [7] If during a manual or a programmed battery test the battery voltage drops below this threshold, the battery test fails.
- [8] Deep discharge protection mechanism monitors the battery voltage and disconnects the battery if the voltage falls below indicated value, as required by EN 50131 Grade 3 and VdS-C regulations.
- [9] A specific fail message is generated when any output fails.
- [10] Max ripple voltage only when empty battery is charging.
- [11] Overvoltage protection mechanism monitors the power supply voltage and shuts down the PSU if the voltage raises above indicated value, as required by EN 50131 Grade 3 and VdS-C regulations.

General features	ATS1500A	ATS3500A	ATS4500A
Code combinations	From 10,000 (4 digits) to 10 billion (10 digits)		
End-of-line resistor	1 k Ω , 1.5 k Ω , 2 k Ω , 2.2 k Ω , 3.3 k Ω , 3.74 k Ω , 4.7 k Ω (default), 5.6 k Ω , 6.8 k Ω , 8.2 k Ω , 10 k Ω		
Onboard zones	8 (expandable to 16 with 1X ATS608)		
Maximum zone number	32	128	512
Onboard outputs	5 (expandable to 9 with 1X ATS624, or to 21 with 1X ATS626). See "Standard onboard outputs" on page 11.		
Maximum output number	128		
Areas	4	8	64
Area groups	—	—	64
Maximum keypad / RAS number	8	16	32 [1]
Maximum expander / DGP number	7	15	30 [1]
[1] It is necessary to install ATS670 second RS485 LAN extension module to connect more than 16 RASes and 15 DGPs.			
Maximum user number (for users with SMS and voice reporting functionality)	2000, which includes: -1000 full data users -1000 card-only users		
User groups	16	64	128
User group types	3	7	7
Inhibit / isolate / shunt limit, max.	32	128	512
Schedules	24		
Time frames	4 per schedule		
Special days	8		
Actions per schedule	20		
Event log capacity.	24500, which includes: - 10000 mandatory events - 1500 non-mandatory events - 10000 access events - 1000 installer events - 1000 dialler events - 1000 extended events		
Data retention (log, program settings)	20 years		
Access control features	ATS1500A	ATS3500A	ATS4500A
Door controllers supported	7	12	12
Standard doors	4	8	16
Intelligent doors:			
CDC4(-EN) standard mode	28	48	48
CDC4(-EN) extended mode	28	96	96
Regions	256		

Door groups	128
Floors	64
Floor groups	128
Maximum user number (with door controllers connected):	
CDC4(-EN)	65532
ATS125x without IUM	2000
ATS1250 with ATS1831 IUM	17488
ATS1250 with ATS1832 IUM	65532

Note: SMS and voice reporting features are only available for a limited user number. Maximum number of users with full control and reporting functionality is given in "General features" on page 10.

Audio features

Maximum audio device number	8	16	32
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UltraSync features

Maximum number of push notifications	16
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Ethernet connection (IP only)

Supported standard	IEEE 802.3u
Speed	10BASE-T or 100BASE-TX
Duplex	Half-duplex and full-duplex
Cabling	FTP (foiled twisted pair) Cat 5e cable or better
Autonegotiation	MDIX

Standard onboard outputs

S1, S2, S3	High current electronic output, rating: 1 A at 13.8 V $\overline{=}$
S4, S5 [1]	Low current electronic output, rating: 50 mA at 13.8 V $\overline{=}$

[1] Maximum cable length for low current output connection may not exceed 30 m. For longer distances, use relay output expansion (for example, ATS624 four-relay expander).

Environmental

Operating temperature	0 to +40°C
Tested temperature according EN 50131	-10 to +55°C
Humidity	95% noncondensing
IP protection grade	IP31
Colour	Beige
Dimensions	See "List of panel variants" on page 5
EN 50131 grade and class	ATS1500A(-IP): Grade 2, Class II ATS3500A(-IP): Grade 3, Class II ATS4500A-IP: Grade 3, Class II Note: ATS1500A(-IP)-MM can be upgraded to an EN Grade 3 setup with the use of the ATS-MM-TK tamper kit.
Safety class	Class I
Enclosure type	Enclosure (meets UL94V-0)
Earthing cable types	Aritech 160558999-1
Overvoltage category	Category II
Maximum altitude, or minimum air pressure	2000 m above mean sea level

Fuses

Battery	ATS1500A(-IP), ATS3500A(-IP): 2 A, resettable ATS4500A(-IP): 3 A, resettable
12 V aux	1 A, resettable

System databus	1 A, resettable
Siren 1, high current output S1	1 A, resettable
Siren 2, high current output S2	1 A, resettable
Siren 3, high current output S3	1 A, resettable
Mains, mains fuse	ATS1500A(-IP)-SM/LP: T-160 mA, 230 VAC, slow, Aritech 33-119 ATS1500A(-IP)-MM, ATS3500A(-IP), ATS4500A-IP: T-315 mA, 230 VAC, slow, Aritech 33-118

Note: Mains fuse is part of the Aritech 120494888 mains terminal block.

WARNING: Before removing the mains fuse, mains power must be disconnected (see "Mains power connection" on page 6).

Auxiliary current and battery capacity

Table 2: ATS1500A(-IP) maximum available auxiliary current

Battery capacity, Ah	7.2	12	18
Applicable housing	SM, MM, LP	LP	MM
Security approval / Grade	Discharge time, h	Charge time, h	Auxiliary current, mA
EN Grade 2	12	72	450 750 750
INCERT Grade 2	24	48	150 350 570
INCERT Grade 3	60	24	— — 150
EN Grade 3, VdS-B	30	24	90 250 350
NF&A2P Grade 2 (EN+RTC)	36	72	— 180 350
NF&A2P Grade 3 (EN+RTC), VdS-C	60	24	— — 150

Table 3: ATS3500A(-IP) maximal available auxiliary current

Battery capacity, Ah	7.2	12	18
Applicable housing	MM, LP	LP	MM
Security approval / Grade	Discharge time, h	Charge time, h	Auxiliary current, mA
EN Grade 2	12	72	450 850 1350
INCERT Grade 2	24	48	150 350 600
INCERT Grade 3	60	24	— — 150
EN Grade 3, VdS-B	30	24	90 250 450
NF&A2P Grade 2 (EN+RTC)	36	72	— 180 350
NF&A2P Grade 3 (EN+RTC), VdS-C	60	24	— — 150

Table 4: ATS4500A-IP maximal available auxiliary current

Battery capacity, Ah	12	18	25	36
Applicable housing	LM	MM+, LM	LM	LM
Security approval / Grade	Discharge time, h	Charge time, h	Auxiliary current, mA	
EN Grade 2	12	72	850 1350	1600 1600
INCERT Grade 2	24	48	350 600	890 1350
INCERT Grade 3	60	24	— 150	260 450
EN Grade 3, VdS-B	30	24	250 450	675 1000

Battery capacity, Ah	12	18	25	36
Applicable housing	LM	MM+, LM	LM	LM
Security approval / Grade	Discharge time, h	Charge time, h	Auxiliary current, mA	
NF&A2P Grade 2 (EN+RTC)	36	72	180	350 540 850
NF&A2P Grade 3 (EN+RTC), VdS-C	60	24	—	150 260 450

Note: 18 Ah battery blocks some entry holes in the MM housing.

Example for ATS1500A(-IP) EN Grade 2

When using battery backup as specified for EN Grade 2 using a 12 Ah battery, the maximum available auxiliary current is 750 mA.

Example for ATS3500A(-IP) EN Grade 3

When using battery backup as specified for EN Grade 3 using an 18 Ah battery, the maximum available auxiliary current is 450 mA.

This current is the max grand total available current that may be used for auxiliary components such as:

- Devices on the Advisor Advanced system databus
- Detectors on the auxiliary power output
- Communication devices via MI-bus (e.g. GSM, IP)

Temporary used current such as: Sirens and Strobes are not included.

Fuse rating must be taken into account.

Battery status information

Various detection ways are provided to understand the status of a battery.

A short battery test will be applied to detect following within 10 seconds:

- Battery fail (or battery missing) to inform installer no battery is attached or a poor battery is attached. Event will be logged and notified.
- Low battery as soon as battery becomes below 10.5 V with or without mains. Event will be logged, notified and reported.

Another battery test will be applied once per day to even better understand battery status. In case battery wears out a battery fail message will be logged, notified and reported.

System monitoring

The system provides monitoring for the following items.

Table 5: Monitored items

Monitoring function	Message	Cause
AC Mains	Mains fail	Loss of external power supply [1][2]
Battery	Battery low	Battery low voltage [1]
	Battery test fail	Exhausted battery Battery charger fail
	Fuse/power output fail	Output overload

Monitoring function	Message	Cause
Power outputs	Fuse/power output fail	Exhausted fuse Fuse loss Short circuit Overload
Power supply	Power unit/power output fail	Power unit failure Overvoltage
Tampers	Device tamper	Device sabotage

- [1] Mains fail and Battery low will finally result in Battery deep discharge protection.
- [2] Mains fault message is indicated in case of AC trouble or PSU fault. View the panel event log to identify the fault source.

Regulations

This section describes settings and actions required by particular regulations and norms.

EN 50131 Grade 2

The following options and values are mandatory for EN 50131-1 Grade 2 regulations.

- 1.2.6.n.3 Period, see “Transmitter polling interval requirements” on page 353.
- 2.2.1.n.3.4 View areas and 2.2.1.n.3.6 Control areas settings are identical
- 2.2.1.n.3.11 Buzzer silent, never
- 2.2.1.n.3.12 Quick set, off
- 2.2.1.n.3.13 Function keys, all set to None
- 2.2.1.n.3.18 ACK on keypad, set to None for non-LCD keypads
- 3.1.n.7.3 SMS control, disabled for all users
- 3.2.n.6 User group options, 25. No OP/CL reports option set to No
- 4.1.n.6.1 Inhibit, set to No for all zones with type 5. Panic, 6. 24H
- 4.1.n.6.6 Swinger shunt, set to Yes for all zones
- 4.1.n.6.26 ACK on keypad, set to None for all zones with type 9. Keyswitch
- 4.2.n.3 Entry time, 45 s maximum
- 4.2.n.5.1 Entry alarms, Instant
- 7.2.n.2 Active, set to No for all schedules.
- 8.1.2.1 Activation, external siren 90 to 900 s
- 8.1.2.2 Delay time, external siren 600 s maximum
- 8.1.3.1 Armed display, set to 00'00
- 8.1.3.4 Mains reporting delay, 3600 s maximum
- 8.2.1 User code required, enabled
- 8.3.1 Armed display, always
- 8.3.3 Alarm list, disabled
- 8.4.1 RTS options, all enabled except zone technical alarm, which is optional
- 8.4.2 Inhibit includes, all allowed except engineer reset, which must be disabled
- 8.4.6 Pending alarms, enable EN50131
- 8.4.10 Report exit fault, EE fault
- 8.6.4 Swinger shunt ≥ 3
- 8.6.5 Report restore, on ACK
- 8.7.8.1 Remote config, No
- 8.8.14 Siren report, Fault
- 9.3.n.2 Line fault, enabled per path used
- 9.3.n.3 Line fault delay, 0 s

It is required to apply the following supervision settings for wireless DGPs:

- Short supervision: 20 minutes
- Long supervision: 2 hours
- Smoke supervision: 4 hours

Refer to appropriate sections and manuals.

Caution: When any option, any additional function or any additional zone type in this section does not comply with the EN 50131 requirements, the EN 50131 Grade 2 label must be removed from the system.

Additional functions

The Wireless PIR Camera functionality brings along video verification feature, this additional function is fully available without compromise to standards the system complies to.

The Wireless PIR camera system consists of the following:

- Advisor Advanced series control panel
- ATS1238 Advanced Wireless DGP
- TX-2344-03-1 Wireless PIR Camera
- ATS73X0 GSM/GPRS Module

These PIR camera settings have no influence on EN 50131 compliance:

- 2.2.2.n.4.9.1.1.2 Frame rate for all event types
- 2.2.2.n.4.9.1.1.3 Pic resolution for all event types
- 2.2.2.n.4.9.3 Pic auto deletion
- 4.5 Cameras
- 9.1.n.4.5 Pic dest port
- 9.3.n.11 Max Pics 24h, 9.3.n.7.9 Max Pics 24h

EN 50131 Grade 3

The following options and values are mandatory for EN 50131-1 Grade 3 regulations:

- All Grade 2 required settings (see “EN 50131 Grade 2” on page 12).
- PIN length should be 6 digits minimum.
- 3.2.n.6 User group options, set (6) Isolate, (22) SMS reporting, (23) SMS control to No for all user groups except Installer.
- 4.1.n.6.7 Anti mask, set to Yes for all I&HAS movement detectors
- 4.2.n.2.1 Exit time 1, ≤ 180 s
- 8.1.3.4 Mains reporting delay, ≤ 1 h
- 8.3.5 View EE timer, set to Off
- 8.4.1 RTS options, set Zone masking condition to Yes
- 8.4.2 Inhibit includes, set Zone masking condition to Access Level 2
- Battery test should be performed daily.

The following features are not allowed (not evaluated):

- Keyswitch zone types to set and unset the system.
- Presetting indication and any automatic override of set prevention.

Refer to Table 6 below for all supported options for notification requirements.

Table 6: EN 50131-1:2006 options

Notification equipment (Alarm reporting)	Grade 3 options			
	A	B	C	D
Remotely powered audible WD	2	Optional	Optional	Optional
Self-powered audible WD	Optional	1	Optional	Optional
Main ATS [1]	ATS 4	ATS 4	ATS 4	ATS 5
Additional ATS [1]	Optional	Optional	ATS 3	Optional
ATS [2]	SP3	SP3	DP3 [3]	SP4

[1] Requirement according to EN 50136:2010

[2] Requirement according to EN 50136:2012

[3] Primary Path — SP4, backup path — SP2

Legend:

- ATS: Alarm transmission system
- SP: Single path alarm transmission system
- DP: Dual path alarm transmission system

The key variations of cards and keys are the following:

- ATS147x range (used with ATS1135 and ATS119x): 67 million
- ATS145x card range (used with ATS1136 and ATS118x): 280 trillion

The cards make use of 26 bit (to 48 bit) Hitag protocol.

The installer (user level 3) commissions the system with appropriate additional functions.

The end-user (user level 2) is able to make use of all these functions.

The Installer can only make use of these functions when he has an access granted by end-user.

EN 50136 policy

Required settings:

- 9.1.n.7 Retry count: 1
- 9.1.n.8.3.2 Heartbeat time: According Table 7 on page 14.
- 9.1.n.8.3.5 Freq. HB time: According Table 7 on page 14.
- 9.3.n.8.1 Firewall: Yes
- 9.3.n.8.2 Reply on PING: No
- 9.3.n.7.6.1 Firewall: Yes
- 9.3.n.7.6.2 Reply on PING: No
- 9.3.n.9 Encryption: Yes
- 9.4.3 Encryption key 1 must be set.

See also “Transmitter polling interval requirements” below.

Transmitter polling interval requirements

Transmitter polling interval must be set according to specified requirements for different alarm transmission systems (ATS). Table 7 on page 14 lists all required settings for the appropriate standards and diallers.

Table 7: Transmitter polling settings

Standard and category	Required polling interval	Comm. path and dialler	Option	Required value
EN 50136:2012				
SP2	25 h	PSTN via AT57700 and GPRS (backup) via AT573X0	Period	24
SP3	30 min	IP built-in, or GPRS via AT573X0	Heartbeat time	00:29'00
SP4	3 min	IP built-in, or GPRS via AT573X0	Heartbeat time	00:02'30
SP5	90 s	IP built-in	Heartbeat time	00:01'00
SP6	20 s	IP built-in	Heartbeat time	00:00'10
EN 50136:2010				
ATS2 (T2), ATS3 (T2)	25 h	PSTN via AT57700 and GPRS (backup) via AT573X0	Period	24
ATS4 (T3)	300 min	IP built-in, or GPRS via AT573X0	Heartbeat time	04:55'00
ATS5 (T4)	180 s	IP built-in, or GPRS via AT573X0	Heartbeat time	00:02'30
ATS6 (T6)	20 s	IP built-in	Heartbeat time	00:00'10
LPS1277: Issue 3.0				
ATS4Plus	10 min	IP built-in, or GPRS via AT573X0	Heartbeat time	00:09'00

EN 50131 Grade 3 certified components

The Advisor Advanced EN 50131 Grade 3 system exists out the following components.

Intrusion control panels

- AT51500A(-IP). **Note:** AT51500A(-IP)-MM is upgradable to Security Grade 3 using the AT5-MM-TK tamper kit.
- AT53500A(-IP)
- AT54500A-IP

Keypads / readers (RAS, remote arming station)

Panel can support up to 8 or 16 RAS devices at the same time, depending on intrusion panel, regardless of type (independent of other expanders).

- AT51135: LCD keypad
- AT51190/1192: Smart Card reader
- AT51151/AT51156: Keypad
- AT51136: LCD keypad
- AT5118x: Smart Card reader series

Remote expanders (DGP, data gathering panel)

Panel can support up to 7 or 15 DGP devices, depending on intrusion panel, regardless of type (independent of other expanders).

- AT51201E: 8 to 32 zone DGP expander with 3 A PSU, small enclosure, EN 50131 Grade 3
- AT51204E: 8 to 32 zone DGP expander with 3 A PSU, large enclosure, EN 50131 Grade 3

I/O expanders

Panel can support up to 3 I/O devices depending on the type.

- AT5608: Plug in 8-zone expander
- AT5624: 4 relay board
- AT5626: 16 open collector output board

Reporting devices

Panel can support 1 GSM device connected onto MI bus.

- AT57310: GSM communication device
- AT57320: GSM communication device
- AT57440: IP/GPRS alarm dialer
- AT57700: PSTN interface board

When any option, any additional function or any additional zone type in this section does not comply with the EN 50131 requirements, the EN 50131 Grade 3 label must be removed from the system. See also "EN 50131 compliance precautions" below.

EN 50131 compliance precautions

Installation

In order to install an EN 50131 compliant system, please make sure that all system components are EN 50131 compliant. See "EN 50131 Grade 3 certified components" above for more details.

Programming

Make sure that all system settings are in line with regulatory compliance guidelines. See "EN 50131 Grade 3" on page 13 for more details.

Size of log / event history

For full EN 50131 Grade 3 compliance, the system must store at least 500 events.

Marking

It is only allowed to mark the system with the EN 50131 Grade 3 label, if the following requirements are met:

- All system components are EN 50131 compliant. Refer to "EN 50131 Grade 3 certified components" above.
- All settings are done according to "EN 50131 Grade 3" on page 13.

If any of these two items is not valid, the EN 50131 Grade 3 label must be removed from the system.

Options affected by other regulations

WARNING! Fire alarm and smoke detection products used with Advisor Advanced systems are intended solely for convenience and should not be used as life safety products. The combination does not meet requirements set by law for life safety products or for use as fire detection systems. Carrier accepts no liability for any damages caused by incorrect application of the products.

ACPO policy

Required settings are all EN 50131 Grade 2 settings with the following modifications:

- 4.2.n.5.1 Entry alarms, Delayed
- 8.2.4 Engineer reset, tamper enabled
- 8.7.6 Alarm confirm:
 - AB mode, enabled for all relevant areas
 - AB time, 30 min minimum, 60 min maximum
 - EE Confirm, enabled
 - TA confirm, enabled

Note: ACPO policy allows a higher level manager to become a level 3 user. Also, level 3 user menu access may be allowed without level 2 user authorization if it is provided by appropriate written agreement from the customer.

Note: If the system must be compliant with both ACPO and CPNI, all ACPO and CPNI required settings must be set. See also "CPNI policy" below.

CPNI policy

To conform with UK CPNI (Centre for the Protection of National Infrastructure) requirements, upon Installation, select the default setting UK Grade 3.

The current minimum firmware for CPNI compliance is MR 4.7.

The main configuration settings included in the UK Grade 3 default settings required for CPNI (and PD6662:2017) conformance are summarised below, and these must be checked and configured when installing a new system or when upgrading an existing system.

- 4.2.n.4.2 Prealarm time: 0 s for all areas
- 8.2.1 User code required: Yes
- 8.2.4.2 Tamper: Yes
- 8.2.4.4 Confirmed alarm: B-Alarm
- 8.4.6 Pending alarms: Enable
- 8.7.4 PIN length: 6
- 8.7.6.4 EE confirm: Yes
- 8.7.6.9 Reporting delayed: Yes

See *Advisor Advanced Installation and Programming Manual* for further details on set-up.

CPNI approved control panels

The following Aritech Control Panels are approved for use on CPNI sites:

- ATS1500A-IP-MM (requires ATS-MM-TK added for compliance)
- ATS3500A-IP-MM
- ATS4500A-IP-MM

CPNI approved peripherals

The following Aritech Advisor Advanced peripherals are approved for use with the above panels on CPNI sites:

- ATS-MM-TK (rear tamper kit required for ATS1500A-IP-MM panel variant)
- ATS608, ATS626
- ATS1201E, ATS1203E, ATS1204E, ATS1210LE, ATS1211E, ATS1202
- ATS1136, ATS1180, ATS1181, ATS1184
- ATS1740, ATS1744
- ATS1810, ATS1811
- ATS1451, ATS1452, ATS1455, ATS1457, ATS1458W, ATS1458B, ATS1459, ATS1482

Wiring and interconnections, when used for CPNI applications

The use of wiring and the associated interconnections shall be appropriate for the system performance required and the local conditions within the service environment.

The installation should conform to good working practices and be in accordance with the requirements of the relevant electrical installation regulations (for example, BS 7671) as well as the specific recommendations of the equipment manufacturer(s).

All cables must be adequately supported and run in positions where there is least risk of physical damage. Cables installed below 2 m above floor level and cables that may be exposed to accidental damage must be mechanically protected by ducting, trunking, or conduit. Cables that drop to protective switches mounted on the floor (for example, for the protection of roller shutter doors) should be encased in conduit to provide mechanical protection. Where the mechanical protection is made of conductive material it must also be properly earthed.

Wherever possible, wired interconnections should be run inside the supervised area. However, where this is impractical, interconnections shall be provided with protection against tampering, for example, by enclosing the cables in metal conduit.

The choice of cable used to interconnect the other intruder detection system components may depend upon the specific requirements of the installation, for example, some installations might require fire resistant cabling. However, where no specific requirements are defined, the use of a screened twisted pair type cable is preferred as it provides superior immunity to electrical interference compared with standard unscreened alarm cable.

In certain circumstances, mains borne electrical interference may cause false alarms. This can generally be overcome with the use of screened cabling and by filtering the mains input to the power supplies and separating the intruder detection system interconnecting cables from mains and/or high voltage cables.

Although the electrical standards require low voltage cables used in intruder detection systems to be run in separate containment from the mains power or high voltage cabling, it is worth confirming that adequate separation has actually been provided.

All joints in the interconnection wiring should be both mechanically and electrically secure. Where conduit access points and/or junction boxes are fitted outside the supervised area they shall incorporate tamper detection. The removal of their access covers shall require the use of a tool and the

covers shall be continuously monitored by the intruder detection system to detect unauthorised opening.

It is recognised that not all enclosures have the provision to accept conduit. Where this is the case, screened cable may be installed between the conduit terminating box and the equipment. The exposed screen shall be kept as short as possible at the point of entry into enclosures and shall be terminated at one end to a cross bonded main earth point.

Wiring associated with alarm transmission paths (ATPs) shall be concealed as far as is practical and means provided to prevent the inadvertent disconnection of plug-in transmission connections (for example, telephone socket with a locking facility). When ordering a dedicated connection for the supervised premises transceiver (SPT) from a telecommunications provider, it is recommended that in addition to the telephone socket outlet, a 'block terminal' is fitted adjacent to the enclosure containing the SPT for diagnostic purposes.

Where the routing of ATP wiring may be exposed to potential lightning strikes, consideration should be given to the use of additional lightning protection devices. Many SPT devices have electrical transient suppression fitted which often requires the SPT to have an electrical earth connection. Confirmation should be sought from the alarm company that the earth connection has been made correctly to a known good earth potential. Failure to do so will result in the non-operation of the transient protection device and a very high probability of a catastrophic failure of the SPT.

Any landline-based alarm transmission path (Ethernet, PSTN, etc.) shall have a cable interconnection between the SPT and the first suitable alarm transmission network termination point within the premises. This interconnection shall be made in one continuous run and use termination components (or housings) that protect against cable removal without the use of a tool. The connection to the alarm transmission network shall be made in such a manner that where non-alarm related apparatus/services are also connected to that network, they do not prevent, or interfere with, the correct operation of the alarm transmission system.

INCERT policy

The required settings for INCERT Grade 2 are all EN 50131 Grade 2 required settings, and settings for INCERT Grade 3 are all EN 50131 Grade 3 required settings, with the following modifications:

- 1.2.9.1.m.n.2 Batt.test freq: Everyday
- 8.2.1 User code required: Enabled
- 8.3.3 Alarm list: Disabled
- 8.4.1 RTS options: FTC and Battery fault set to On
- 8.4.2 Inhibit includes: Battery fault must be set to Access level 2
- 8.4.6 Pending alarms: Enable EN 50131
- 9.3.n.2 Line fault: Set to If used or On
- 9.3.n.7.7 Line fault: Set to On

See also "EN 50131 Grade 2" on page 12 and "EN 50131 Grade 3" on page 13.

For INCERT T031 installations the following devices should be mounted in metal housings only: ATS7700, ATS7200E, RC213, ATS1810, ATS1811, ATS1202, ATS1330, ATS1740, ATS1743.

SES policy

Depending on the SES default chosen, the following SES settings are required on top of EN 50131 Grade 2 / Grade 3.

- Take care that a proper dedicated panic button is used (which cannot be pushed by accident).
- Automatic unsetting is not allowed.
- For SES Grade 3 is not allowed to program GPRS communication as primary CS, it is only allowed in Grade 2.
- The table below indicates the required polling intervals for SES Grade 2 and Grade 3.

		Primary CS (IP)			
		AÜA-B25	AÜA-B5	AÜA-S180	AÜA-S20
		25 h	5 h	180 s	20 s
Back-up CS (GPRS)	AÜA-B25	25 h	2	2, 3	2, 3
	AÜA-B5	5 h	2	2, 3	2, 3

* 2, 3: EN-CH Grade of the system

- The following options must be set:

Standard and category	Required polling interval	Comm. path and dialler	Option	Required value
SES CHD.07 (V3 / 01.01.2011)				
AÜA-B25	25 h	IP built-in, or GPRS via ATS73X0	Heartbeat time	24
AÜA-B5	5 h	IP built-in, or GPRS via ATS73X0	Heartbeat time	4
AÜA-S180	180 s	IP built-in, or GPRS via ATS73X0	Heartbeat time	00:02'30
AÜA-S20	20 s	IP built-in	Heartbeat time	00:00'10

SBSC policy

Larmklass 1

Required settings are all EN 50131 Grade 2 settings with the following modifications:

- 4.2.n.5.1 Entry alarms: Instant
- 8.7.6.9 Reporting delayed: No

See also "EN 50131 Grade 2" on page 12.

Larmklass 2

Required settings are all EN 50131 Grade 3 settings with the following modifications:

- 4.2.n.5.1 Entry alarms: Instant
- 8.7.6.9 Reporting delayed: No

See also "EN 50131 Grade 3" on page 13.

Regulatory information

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Authorized EU manufacturing representative:
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WARNING! Fire alarm and smoke detection products used with Advisor Advanced systems are intended solely for convenience and should not be used as life safety products. The combination does not meet requirements set by law for life safety products or for use as fire detection systems. Carrier accepts no liability for any damages caused by incorrect application of the products.

For more information on warranty disclaimers and product safety information, please check <https://firesecurityproducts.com/policy/product-warning/> or scan the QR code.

Version This document applies to the following Advisor Advanced firmware version: MR_4.8

Certification 

EN 50131-1 System requirements
EN 50131-3 Control and indicating equipment
EN 50131-6 Power Supplies
EN 50136-1-1 Alarm systems - Alarm Transmission systems

ATS1500A(-IP): Security Grade 2, Environmental class II

ATS3500A(-IP): Security Grade 3, Environmental class II

ATS4500A-IP: Security Grade 3, Environmental class II

Note: ATS1500A(-IP)-MM is upgradable to Security Grade 3 using the ATS-MM-TK tamper kit.

Mode of operation as per EN 50136-2:2013.

The transmission of the events to the central station takes place by means of pass-through procedures in accordance with EN 50136-2:2013.

Tested and certified by VdS Schadenverhütung GmbH.

Important: To comply with the above standards, it is required to configure the system according to settings listed in *Advisor Advanced ATsx500A(-IP) Installation and Programming Manual*, chapter "Regulations".

This product has **not** been designed to comply with EN 50134 and EN 54 norms.

Carrier Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of the Directive 2014/30/EU and/or 2014/35/EU. For more information see firesecurityproducts.com or www.aritech.com.

REACH

Product may contain substances that are also Candidate List substances in a concentration above 0.1% w/w, per the most recently published Candidate List found at ECHA Web site.
Safe use information can be found at <https://firesecurityproducts.com/en/content/intrusion-intro>



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info

Product documentation

Please consult the following web link to retrieve the electronic version of the product documentation.



This link will guide you to the EMEA regional contact page. On this page you can request your login to the secured web portal where all manuals are stored.

<https://firesecurityproducts.com/en/contact>

Contact information

firesecurityproducts.com or www.aritech.com

