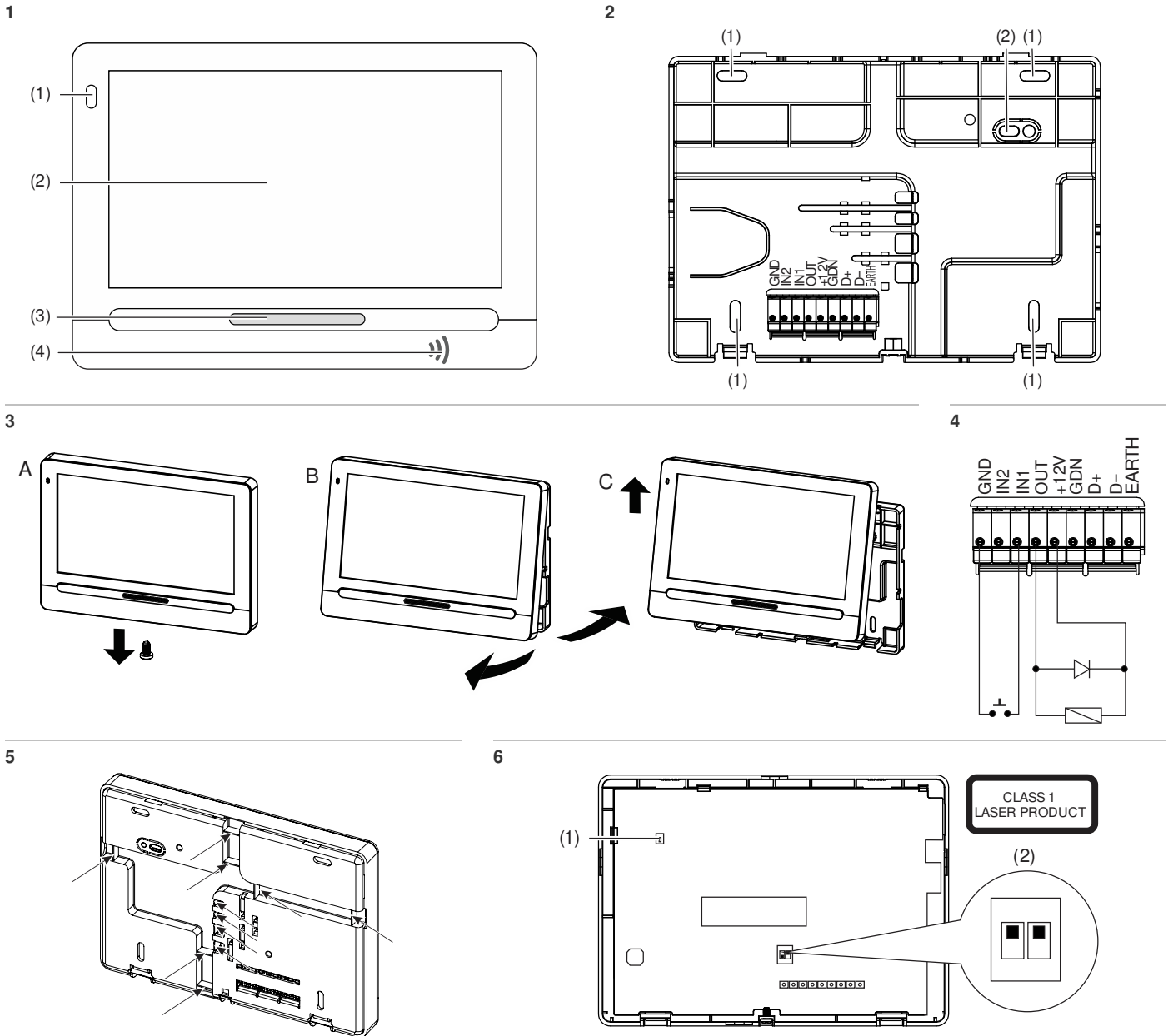


ATS1140 Touchscreen Installation Sheet

EN



EN: Installation Sheet

Description

ATS1140 is a touchscreen interface for Advisor Advanced ATsx500A and Axon control panels.

Mounting

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.

Cautions

- Due to safety reasons, it is not allowed to install the product in any location outside the building where the corresponding control panel is placed (unless a proper RS485 line insulation module is used). Network to network insulation is required as no proper separation might interact with alarm system signal integrity and cause unexpected results.
- Any overhead lines are strictly prohibited.
- It is not recommended to use bottom cable duct directly below touchscreen as installation cable signal may interfere with RFID cards antenna field and could decrease access cards identification range.
- Due to safety reasons, it is not allowed to wall-mount the device higher than 2 meters from the floor, and in reach of children.
- It is prohibited to perform any installation operations by non-instructed person, in EN 62386 meaning.

Open the touchscreen, following the steps shown in Figure 3. Unscrew the locking screw. Using a screwdriver, carefully prise open the touchscreen near to the housing bottom corners. Open the housing bottom first, top next.

Connect cable to touchscreen back plate. See also "Connections" below.

Figure 1: Touchscreen layout

- | | |
|-------------------------|------------------------|
| (1) Presence sensor | (3) Status LED bar |
| (2) Touchscreen display | (4) Mifare card reader |

Figure 2: Touchscreen base

- | | |
|---------------------|----------------------------|
| (1) Mounting points | (2) Pry-off tamper element |
|---------------------|----------------------------|

Cut out the knockouts for cable access if necessary. The knockout positions are shown with arrows in Figure 5. Use cable ties to fix cables in the cable passages if necessary.

Attach the base to mounting surface using provided screws, including pry-off tamper screw, which fixes the pry-off tamper element (Figure 2, item 2).

Tamper switch

The tamper switch must be inactive (closed) for the system to work correctly. The tamper switch is sealed by mounting the touchscreen onto the mounting plate.

DIP switch

DIP switch is located on the rear of the touchscreen (see Figure 6, item 2) and is used for setting the touchscreen bus termination (TERM) condition.

- SW1: TERM switch. To terminate the bus with the 120 Ω built-in resistor, set DIP switch 1 to On, if required.

There must be no more than two TERM switches or links set to On for any bus. Refer to the appropriate control panel manual for details on the data bus termination.
- SW2: Factory use only. SW2 must be in the Off position.

Caution: If the touchscreen is used with the standard AT5x500A control panel hardware, which requires 470 Ω bus termination, do not use built-in termination. Instead, connect a 470 Ω resistor in parallel with the data bus connection D+ and D-. Set SW1 to the Off position.

Figure 6 shows the default DIP switch positions.

Figure 6: Touchscreen back view

- | | |
|-------------------|----------------|
| (1) Tamper switch | (2) DIP switch |
|-------------------|----------------|

Connecting control panel to touchscreen

Refer to the appropriate control panel manual for instructions.

Connections

Figure 4 shows input and output wiring example.

- +12 V, 0 V: The touchscreen can be powered using the bus "+" and "-" power from the control panel, if the distance between the touchscreen and the control panel does not exceed the maximum cable length given in "Specifications" on page 3. Otherwise, the touchscreen can be powered by AUX PWR from a DGP, or by an auxiliary power supply. See "Specifications" on page 3 for the power supply information.
- D+/D-: D+ is the data positive connection and D- is the data negative connection of the data bus.

The touchscreen is connected to the ATS panel via the RS485 data bus, up to 1.5 km from the control panel. It is recommended to use two-pair twisted, shielded data cable (WCAT 52/54). D+/D- should be connected by one twisted wire pair. The shield of any bus cable must be connected to system ground at one end only. The touchscreen does not provide an earth connection for this purpose. Isolate the wires and the shield of the cable correctly to prevent any short circuit on the touchscreen.

- IN1: A request to exit button (normally open, momentary push-button switch) can be connected across "IN" and "0V" terminals. When pressed, this button controls the request to exit function.
- IN2: For future use.
- OUT: Open collector output. For maximum allowed current, see "Specifications" on page 3. Refer to the appropriate control panel manual for details.

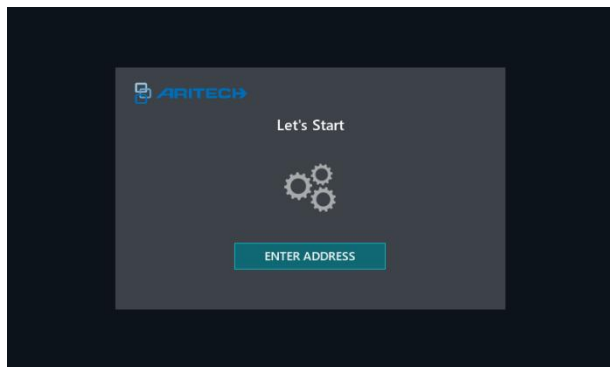
Status LED bar indication

Multicolour LED bar can indicate the following statuses:

- Red On: Areas set
- Red flashing: Alarm condition active
- Orange On: Part set
- Orange flashing: System fault active / General alert (EN 50131)
- Green On: System is ready to set
- Green flashing: Entry / exit time active
- Blue flash: Valid card presented / Access granted
- Off: Not ready to set / Armed display active

Initial installation

When powered for the very first time, the touchscreen shows the following initial installation screen:



Tap the ENTER ADDRESS button to go to the address setting screen:



Select the desired address and tap the CHANGE button. The device restarts to apply the changes.

For more information, see the appropriate control panel manual.

Specifications

Supply voltage	8.5 to 15.0 VDC
Operating current	
Standby	70 mA at 13.7 VDC, 80 mA at 12 VDC
Average	220 mA at 13.7 VDC, 250mA at 12 VDC
Maximum	330 mA at 13.7 VDC, 375mA at 12 VDC
Input type (request to exit)	IN1: Normally open (NO) contact IN2: For future functions
Output type	Open collector (OC), 100 mA max., 15 VDC max.
Overcurrent protection	Built-in
Tamper type	Tamper and pry-off detection
Mounting type	Wall mount
Mounting height	<2 m
Code combinations [1]	
5 digits	100 000
10 digits	10 000 000 000
Mifare reader:	
Carrier frequency	13.56 MHz
Bandwidth	1.696 MHz
Maximum power output	<1 mW
Supported cards:	

Unsecure mode	Mifare Unique ID (Classic 1K/4K, Desfire EV1, EV2, EV3)
Secure mode	Mifare Desfire EV1, EV2, EV3
Card combination with 48-bit key	281 474 976 710 655
Display type	TFT LCD 7-inch colour with touch panel
Display resolution	800 x 480
Touch technology	Capacitive
Proximity sensor	IR Time-of-flight Class 1 laser product compliant with IEC 60825-1:2014
Front panel protection	Tempered glass with oleophobic layer
Wiring	4-wire shielded data bus
Maximum number of touchpad devices on the control panel data bus	8
Maximum cable length (if powered from the control panel or a DGP)	WCAT52 (Ø0.52 mm): 25 m WC104W (Ø0.75 mm): 70 m
Dimensions (W x H x D)	127 x 179 x 20 mm
Weight	460 g
Colour	White
Material	ABS
IP rating	IP30
Operating temperature	0 to +50°C
Maximum relative humidity	95% noncondensing
Security rating (EN62368)	ES1, PS2, TS1, RS1

[1] Notes

- When Duress functionality is enabled, 6 digits codes are required.
- There are no invalid code combinations.

Regulatory information

Manufacturer	KGS Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands
Product warnings and disclaimers	THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. KGS FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY "AUTHORIZED DEALER" OR "AUTHORIZED RESELLER", IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS. For more information on warranty disclaimers and product safety information, please check https://firesecurityproducts.com/policy/product-warning/ or scan the QR code.
	
	
Certification	EN 50131-1 System requirements EN 50131-3 Control and indicating equipment Security grade 3, Environmental class II Tested and certified by Kiwa Nederland B.V. ATS1140 is suitable for use in systems installed to conform to PD 6662:2017 at Grade 3 and environmental class II

European Union directives

KGS 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 www.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: www.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

www.aritech.com