

SIEMENS



ATI5100

Intrusion Arming Terminal

Installation

Technical specifications and availability subject to change without notice.

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1 About this document

This document contains information on the installation of the product.

For information on usage refer to the user manual. For information on configuration refer to the SiPass integrated user manual.

Contacting us

If you have questions or suggestions regarding the product or this documentation, please contact our Customer Support Center:

Intranet: Customer Support Center

Internet: Worldwide contacts

Email: fs.support.sbt@siemens.com

Tel.: +49 89 9221 8000

Training courses

Siemens Building Technologies Fire Safety & Security Products provides training courses for all products.

2 Safety

2.1 Target Group

Target readers	Qualification	Activity	Condition of the product
Installer	Technical training for electrical installations.	Installs the product, individual components of the product or replacement parts.	Components of the product are not yet installed or need to be replaced or modified.

2.2 General Safety Precautions

2.2.1 General Information

- Read the general safety precautions before installing/configuring/operating the device.
- Keep this document for reference.
- Always pass this document on together with the product.

Liability claim

- Use only spare parts and accessories that have been approved by the manufacturer.

Danger of electrical shock on the open device

- Only qualified personnel should open the unit.

2.2.2 Transport

Damage during transport

- Keep the packaging material for future transportation.
- Do not expose the device to mechanical vibrations or shocks.

2.2.3 Installation

- Refer installation to a qualified electrician.
- When handling modules that are susceptible to electrostatic discharge, please observe the ESD guidelines.

Damage due to unsuitable mounting location

- The environmental conditions recommended by the manufacturer must be observed.
- The device should only be used for indoor applications.
- Connect the device only to power sources with the specified voltage. Voltage supply requirements can be found on the rating label of the device.
- Protect the device against moisture.

2.2.4 Service and Maintenance

- Do not attempt to service or modify this device yourself. Refer this work to qualified service personnel.

3 Standards and Guidelines

3.1 EU-Directives

This product complies with the requirements of the following European directives. The EU declaration of conformity is available to the responsible agencies at:

Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
76181 Karlsruhe
Germany

European Directive 2004/108/EC „Electromagnetic Compatibility”

Compliance with the European Directive 2004/108/EC has been proven by testing according to the following standards:

Emitted interference:	EN 55022 class B
Interference resistance:	EN 50130-4

3.2 FCC

This equipment complies with the FCC Rules CFR 47 Part 15 Emission Class B limits.

This equipment has been tested and found to comply with the limits for a Class B, digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turnings the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3.3 C-Tick

Standard for Australia and New Zealand (equivalent to EN 55022 of European Directive)

3.4 UL-Directives


UL 294 Access control units, not UL evaluated for Household or Commercial Burglary.

4 Technical Data

	ATI5100
Tamper contact	Integrated in housing
Display	LC: 128 x 64 dots 4 lines with 16 characters per line
Operating voltage	9 to 30 VDC
Current consumption	35 to 82 mA @ 12 V
Operating temperature	0 to +50 °C
Relative humidity	93 % (no dew)
Buzzer	Integrated Sound level: Different settings for alarms and key press
Housing	Polycarbonate
IP rating	IP30
Colour	RAL 9003
Weight	0.38 kg
Dimensions (W x H x D)	112 x 185 x 28 mm

Please note that the ATI5100 is not intended for use with Intrunet SI400 series (previously known as Sintony) intrusion systems.

4.1 Recommended Cable Specifications

	NOTICE
	<p>Guideline for selecting cables</p> <p>The table provides a guideline for selecting an appropriate cable type only. Other cable types are also compatible with the system and can be used to achieve the same results.</p>

Communication Type	Recommended Cable Specifications								
	Cores	Pairs	AWG	Cores	J-Y(St)Y Diameter (mm)	Wire Type	Insulation	Shield	Jacket
RS485	5	2	28	7 x 36	0.6	Tinned Copper	Foam Polyethylene	Aluminium foil - Polyester tape / braided shield	PVC
	6	3							
	8	4							
RS232	4	2	24	7 x 32	0.6	Tinned Copper	Foam Polyethylene	Aluminium foil - Polyester tape / no braid	PVC
	6	3							
	8	4							
RS422	4	2	24	7 x 32	0.6	Tinned Copper	Foam Polyethylene	Aluminium foil - Polyester tape / no braid	PVC
	6	3							
	8	4							
RJ45	8	4	24	Solid	0.6	Bare Copper	Polyethylene	Unshielded	PVC
	8	4		7 x 32		Tinned Copper			
RJ12	8	4	24	Solid	0.6	Bare Copper	Polyethylene	Aluminium foil - Polyester tape / no braid	PVC
	8	4		7 x 32		Tinned Copper			
Power (12/24 V DC)	2	1	18	19 x 30	1.0	Tinned Copper	Foam Polyethylene	Unshielded	PVC

5 Details for Ordering

Type	Part no.	Designation	Weight
ATI5100	S24246-F2605-A1	Intrusion Arming Terminal	0.38 kg

6 Package Contents

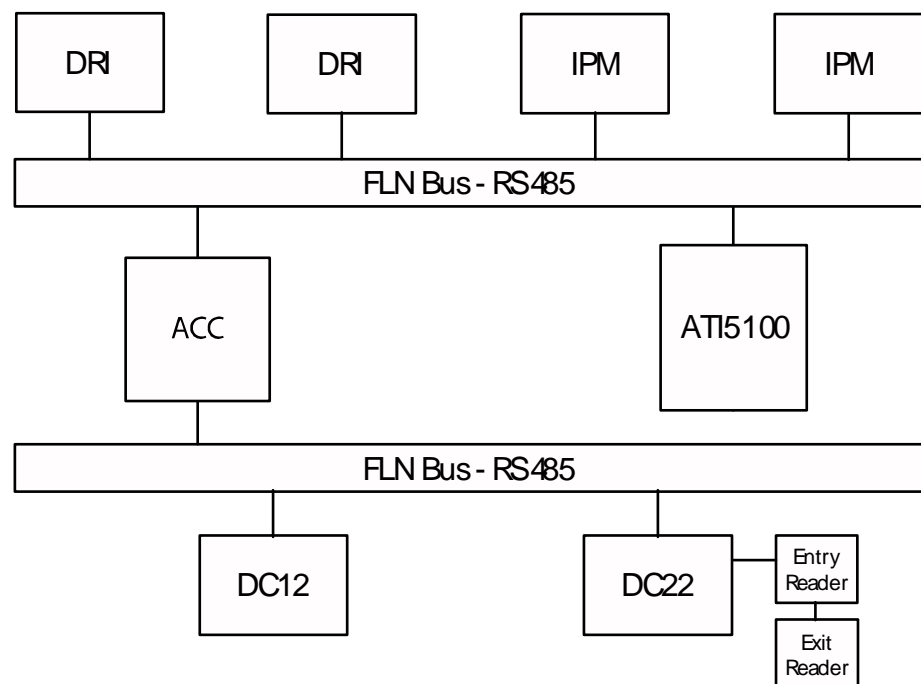
- 1 x ATI5100
- 1 x Installation manual
- Accessories pack

7 Description of Equipment

7.1 Service Description

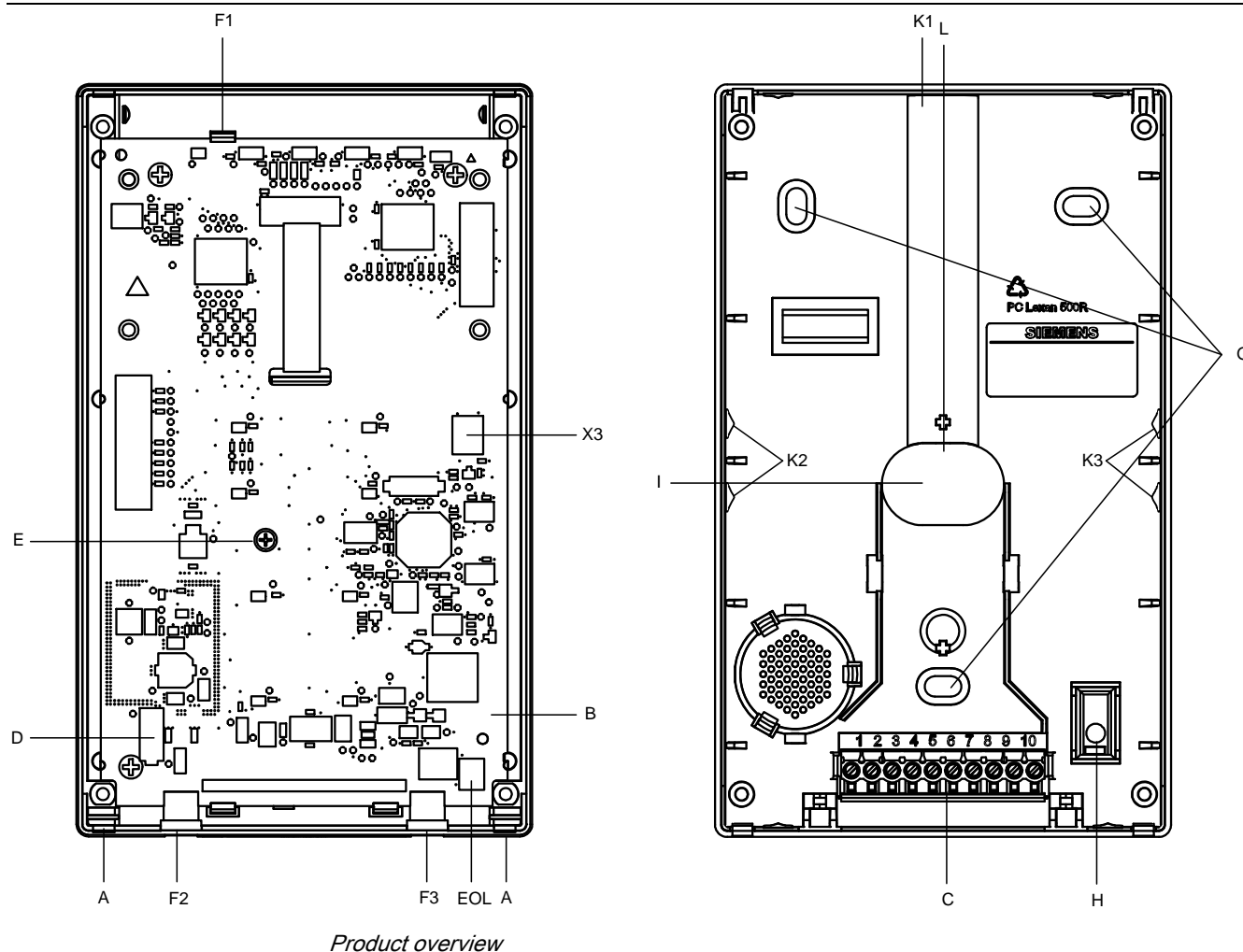
The ATI5100 is an intrusion arming terminal that operates as a part of an integrated access control and security system. The ATI5100 provides a local interface between an advanced access controller (ACC) and the cardholder, to arm and disarm alarm areas.

The following diagram displays where the ATI5100 fits in the SiPass integrated architecture.



ATI5100 in the SiPass integrated system

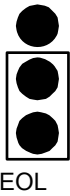
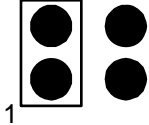
7.2 Product overview



Product overview

- | | |
|--|----------------------------|
| A Lugs | G Screws for mounting |
| B Printed circuit board | H Screw for tamper contact |
| C Screw terminal | I Cable duct |
| D Tamper switch | K1-K3 Breakout pieces |
| E Fixing screw for printed circuit board | L Cable entry hole |
| EOL Jumper | X3 Jumper |
| F1-F3 Lugs holding the PCB | |

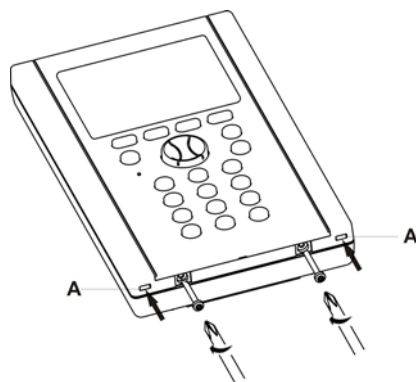
7.3 Set Jumpers

Jumper	Description	Value
EOL	EOL TERMINATION (FLN System Bus) This link allows the RS485 bus communication channel to be terminated in lengthy comms lines – more than 100 m.	
X3 (1-2)	Reset the ATI5100 retaining the unit's firmware <ul style="list-style-type: none"> Interrupt the power supply to the unit for 1 sec. or <ul style="list-style-type: none"> Close X3 (1-2). 	

8 Installation

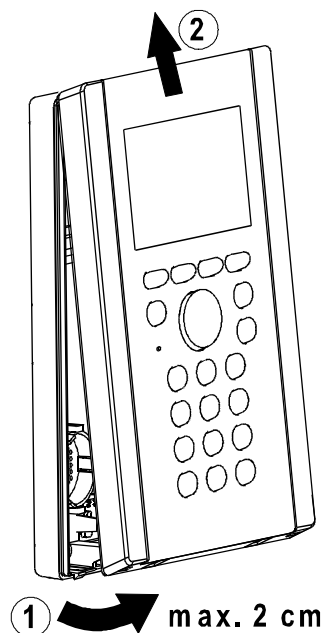
8.1 Opening the housing

1. Loosen the screws by a couple of turns.



Open unit

2. Push the lugs downwards and slightly lift the cover using a screwdriver.
3. Lift the cover by approx. 2 cm and push it upwards.

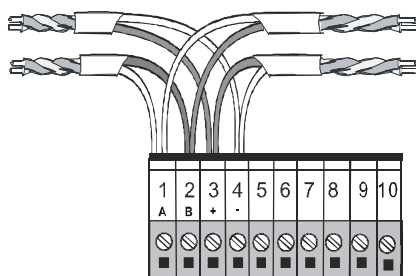


Unit is opened

8.2 Connecting cables

It is recommended to use a cable type IYSTY (Twisted Pair) 2 x 2 x Ø 0.6 mm or larger diameter.

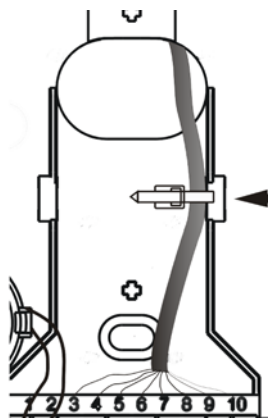
1. Insert the cable through the cable entry hole [→ 10] in the base.
2. If necessary, carefully remove the breakout pieces [→ 10] .
3. Connect the individual wires to the screw terminals.



Connections

Contact pin	Abbreviation	Function
1	A/+	RS485
2	B/-	RS485
3	+	+ Vin
4	-	- Vin
5 to 10		Not connected

- Attach the cable with a cable tie.



Cable tie

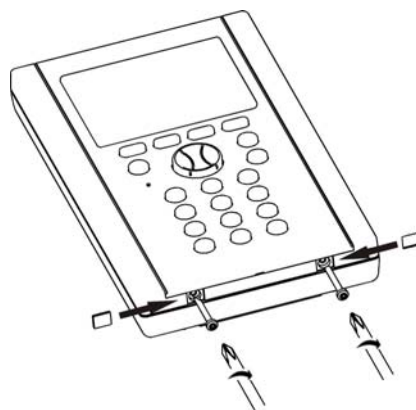
8.3 Mounting the base

Make sure to mount the unit only on surfaces that are sufficiently hard and rigid.

1. Mark 3 holes for the mounting screws [→ 10] and one for the tamper contact [→ 10] .
2. Drill the holes and screw the base.

8.4 Mounting the cover

1. Hook the top of the cover into the base and push downward.
2. Push back the upper part of the housing.
3. The two lugs on the base engage with the corresponding recesses in the cover.
4. Tighten the two screws at the bottom of the unit and seal them using the supplied seals.



Close unit

8.5 Programming and firmware download

The ATI5100 is programmed using SiPass integrated software, via the AC5100, or using the standalone FLN Configurator application. Please refer to the appropriate User's Manual for more information.

9 Disposal



All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Issued by

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