

Smart Card Reader

# Programming Manual



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You are cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Regulatory** 

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## Preface

This is the *Smart Card Reader Programming Manual* for models AL-1191 and AL-1193. This document includes an overview of the product and detailed instructions explaining how to program the reader.

There is also information describing how to contact technical support if you have questions or concerns.

To use this document effectively, you should have a basic knowledge of Alliance systems and components.

Read these instructions and all ancillary documentation entirely **before** installing or operating this product. The most current versions of this and related documentation may be found on our website. Refer to [Online publication library](#) on page 18 for instructions on accessing our online publication library.

**Note:** A qualified service person, complying with all applicable codes, should perform all required hardware installation.

## Conventions used in this document

The following conventions are used in this document:

<b>Bold</b>	Menu items and buttons.
<i>Italic</i>	Emphasis of an instruction or point; special terms.
	File names, path names, windows, panes, tabs, fields, variables, and other GUI elements.
	Titles of books and various documents.
<i>Blue italic</i>	(Electronic version.) Hyperlinks to cross-references, related topics, and URL addresses.
R~^~b*á'æ	Text that displays on the computer screen.
	Programming or coding sequences.

## Safety terms and symbols

These terms may appear in this manual:



**CAUTION:** *Cautions* identify conditions or practices that may result in damage to the equipment or other property.



**WARNING:** *Warnings* identify conditions or practices that could result in equipment damage or serious personal injury.

## Product overview

The Smart Card Reader is a multifunction, proximity card reader suitable for all locations (including outdoors) that require a short-range reader.

You can program the reader using one of the following methods:

- When the reader is connected to the system databus, you can use the control panel programming menu.
- When the reader is connected to a 4-Door/Elevator Controller DGP, you can use the DGP programming menu.
- You can use a configuration card programmed by the Smart Card Programmer (AL-1623) with the Alliance management software (see [Alliance management software programming](#) on page 17).

To program the reader using either the control panel or DGP programming menu, you must connect the readers to the databus and program them one at a time before you install them at their permanent locations. The default address is always 16, you must change the address for each reader to avoid having more than one reader with the same address (16) on the databus at the same time.

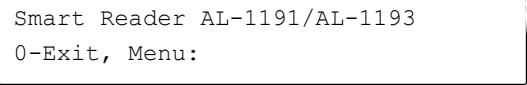
If you program the reader using a configuration card, you can install the reader prior to programming. However, after you install the reader you must change the default address (16) to the reader's proper address on the system.



## Programming basics

The LCD display on the keypad has two lines of characters. Each line contains a different type of information. The top line contains system information and the bottom line contains the instructions and the characters you can enter on the keypad (*Figure 1*).

Figure 1. Programming display



```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

## Navigation tools

The following keys are used to move between system menus or between menu options:

- Press **Enter** to scroll forward one menu option.
- Press **Menu** to scroll backward one menu option.
- Enter **0** and press **Enter** or press **Clear** to exit the menu.

## Programming guidelines

To program the menu options use the following guidelines:

- To program a value, such as a number or amount, enter the value and press **Enter**. The information will be added and the display will show the new setting. Press **Enter** to accept the display.
- You can enter time settings in seconds or minutes. Press **Menu** to toggle between seconds and minutes in the display.
- To program a *Yes/No* option, press **Menu** to toggle between *Yes* and *No*, and press **Enter** to accept the display.
- If you need to change a value that is already programmed, enter the new value and press **Enter**.
- To update polling options that show the status of the current value, press **Menu**.

## System databus programming

If the reader is connected to the system databus, do the following:

1. Disarm the system. In the normal operating display (*Figure 2*), enter **1122** (default manager code) and press **Off**. Enter **0** (select all areas) and press **Enter**.

*Figure 2. Normal operating display*

```
00:00 01/01/2006
Code:
```

2. Access the Alliance system menu. Press **Menu**, enter **1278** (default installer code), and press **Enter** (*Figure 3*).

Access the installer programming. Enter **19** and press **Enter**.

*Figure 3. Enter system menu display*

```
0-Exit ENTER-Down, *-Up
0-Exit, Menu:
```

3. Choose the *advanced* menu option. Press **Menu** (*Figure 4*).

To choose the *simple* menu option, press **Enter**. The simple menu option will limit access to a number of options in installer programming. We recommend that you always choose the advanced menu option.

*Figure 4. Simple/advanced menu display*

```
Simple/Advanced Menu
*-Advanced
```

4. Enter **3** and press **Enter** to access the RAS database. Enter **16** (address of the RAS to poll) and press **Enter**. Press **Clear** to exit this menu.

Access Option 28 (remote devices). Enter **28** and press **Enter**. (*Figure 5*),

*Figure 5. Installer programming display*

```
Installer Programming
0-Exit, Menu:
```

5. Select RAS programming. Enter **2** and press **Enter** (*Figure 6*).

*Figure 6. Remote devices display*

```
Remote Devices: 1-DGP, 2-RAS
Device:
```

6. Enter **16** (address of the RAS to program) and press **Enter**. The RAS number is the same as the RAS address. (*Figure 7*).

*Figure 7. RAS number display*

```
Remote RAS Setup
RAS No:
```

7. The resulting display is shown in *Figure 8*. From this display you can program the reader.

*Figure 8. Menu selection display*

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

## Local DGP databus programming

If the reader is connected to a 4-Door/Elevator Controller DGP local databus, do the following:

1. Disarm the system. In the normal operating display (*Figure 9*), enter **1122** (default manager code) and press **Off**. Enter **0** (select all areas) and press **Enter**.

Figure 9. Normal operating display

```
00:00 01/01/2006
Code:
```

2. Access the Alliance system menu. Press **Menu**, enter **1278** (default installer code), and press **Enter** (*Figure 10*).

Access the installer programming. Enter **19** and press **Enter**.

3. Choose the *advanced* menu option. Press **Menu** (*Figure 11*).

To choose the *simple* menu option, press **Enter**. The simple menu option will limit access to a number of options in installer programming. We recommend that you always choose the advanced menu option.

4. Access Option 28 (remote devices). Enter **28** and press **Enter**. (*Figure 12*),

Figure 10. Enter system menu display

```
0-Exit ENTER-Down, *-Up
0-Exit, Menu:
```

Figure 11. Simple/advanced menu display

```
Simple/Advanced Menu
*-Advanced
```

5. Select DGP programming. Enter **1** and press **Enter** (*Figure 13*).

Figure 12. Installer programming display

```
Installer Programming
0-Exit, Menu:
```

6. Enter the address of the DGP to which the reader is connected and press **Enter**. The DGP number is the same as the DGP address. (*Figure 14*).

Figure 13. Remote devices display

```
Remote Devices: 1-DGP, 2-RAS
Device:
```

Figure 14. DGP number display

```
Remote DGP Setup
DGP No:
```

7. Press **Enter** to display the first menu option (*Figure 15*).


Figure 15. Menu selection display

```
#-Move On * Move Back
Menu
```

8. Enter **1** and press **Enter** to access DGP options (*Figure 16*).

---

*Figure 16. DGP option display*

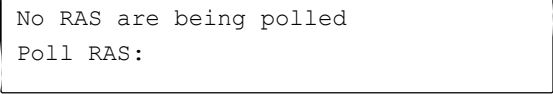


```
1-DGP Options
Menu:
```

9. Press **Enter** to scroll through the options until the display shows *Figure 17*. Enter the reader address (16 is the default) and press **Enter**.

---

*Figure 17. RAS polling display*



```
No RAS are being polled
Poll RAS:
```

## LED online settings

The reader is online when it is connected directly to a system or local databus. You can change the settings of the blue and red LED operation options individually when online.

To change the settings, do the following:

1. From the display in *Figure 18*, enter **1** and press **Enter** to access option 1.

*Figure 18. Smart reader menu display*

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

2. To set the blue LED, enter **1** and press **Enter** (*Figure 19*).

The default display shows *Door Open Only* (*Figure 20*).

*Figure 19. LED display*

```
1-Blue LED, 2-Red LED
No:
```

*Figure 20. Door open only display*

```
Door Open Only
*-Change, #-Exit
```

*Table 1* describes the options.

*Table 1. Blue LED options*

Option	Blue LED is off	Blue LED is on	Blue LED flashes
Door open only	Door closed	-	Door open
Area access plus door open	Armed	Disarmed	Door open

3. Press **Menu** to toggle between the options. Press **Enter** to exit and save the displayed option.

- To set the red LED, enter **2** and press **Enter** (Figure 21).

The default display shows *Area Secure* (Figure 22).

Figure 21. LED display

```
1-Blue LED, 2-Red LED
No:
```

Figure 22. Area secure display

```
Area Secure
*-Change, #-Exit
```

Table 2 describes the options.

Table 2. Red LED options

Option	Red LED is off	Red LED is on	Red LED flashes
Area secure	Disarmed	Armed	-
Area secure plus door open	Disarmed	Armed	Door open

- Press **Menu** to toggle between the options. Press **Enter** to exit and save the displayed option.

## Night light

You can program the reader to create a night light by enabling the blue LED to illuminate faintly. When the red or blue LED is active, the night light is off.

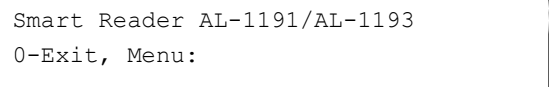
To enable the night light, do the following:

1. From the display in *Figure 23*, enter **4** and press **Enter** to access option 4.

The default display shows *Night Light Enabled* (*Figure 24*).

---

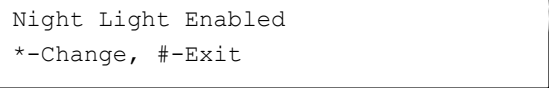
*Figure 23. Smart reader menu display*



```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

---

*Figure 24. Night light enabled display*



```
Night Light Enabled
*-Change, #-Exit
```

2. Press **Menu** to toggle between the enabled and disabled options. Press **Enter** to exit the menu and save the displayed option.

## Protocol options

The reader supports different formats to transmit data.

To set the required protocol, do the following:

1. From the display in *Figure 25*, enter **5** and press **Enter** to access option 5.

The default display shows *Wiegand* (*Figure 26*).

Figure 25. Smart reader menu display

```
Smart Reader AL-1191/AL-1193  
0-Exit, Menu:
```

Figure 26. Wiegand display

```
Wiegand  
*-Change, #-Exit
```

*Table 3* describes the options.

Table 3. Protocol options

Protocol	Description
Wiegand	All data is transmitted both online and offline in the Wiegand protocol. The information on the card decides which format can be used (i.e. Aritech/Tecom ASP or Standard 26-bit format).
Mag stripe	All data is transmitted both online and offline in the Track 2 Magnetic Stripe format. A card present signal is available on the relay output (violet wire) if selected by configuration card or option 8 (relay option).
Alliance smart card	Not available at this time.

2. Press **Menu** to toggle between the options. Press **Enter** to exit and save the displayed option.



## Relay option

The reader has an open collector output available (violet wire) that can be activated by several events.

To set the event, do the following:

1. From the display in *Figure 27*, enter **8** and press **Enter** to access option 8.

The default display shows *Door Relay* (*Figure 28*).

*Figure 27. Smart reader menu display*

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

*Figure 28. Door relay display*

```
Door Relay
*-Change, #-Exit
```

*Table 3* describes the options.

*Table 4. Protocol options*

Protocol	Description
Door relay	Activates (active low) when a valid card is presented to a door and the event flag and output controller have been set properly. Only available online.
Tamper O/P	Activates (active low) when a RAS tamper is present. Available online and offline.
Mag stripe data present	Activates (active low) when a magnetic stripe (smart card) is presented to a Track 2 magnetic stripe interface. Only available offline.
Credit relay pulsed	Activates (active low) as pulse when a credit transaction is successfully completed. Duration is 10 msec. to 2.55 seconds, set in relay time factor. The reader has to be set up as a credit activated device.
Credit relay timed	Activates (active low) for a set duration when a credit transaction is successfully completed. Duration is 1 second to 65535 seconds multiplied by the relay time factor. The reader has to be set up as a credit activated device.
Credit relay latched	Activates when a smart card with valid data is badged and the credit transaction is successfully completed. When the text card is presented, the output will deactivate. The reader has to be set up as a credit device.

2. Press **Menu** to toggle between the options. Press **Enter** to exit and save the displayed option.

## Configuration cards

You can set up the reader with a configuration (option) card. You can change the reader's configuration more than once with a configuration card.

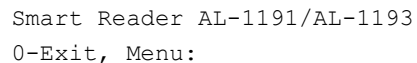
To enable a configuration card, do the following:

1. From the display in *Figure 29*, enter **9** and press **Enter** to access option 9.

The default display shows *Option Card Enabled* (*Figure 30*).

---

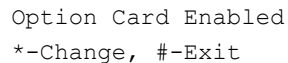
*Figure 29. Smart reader menu display*

A rectangular box containing the text: Smart Reader AL-1191/AL-1193  
0-Exit, Menu:

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

---

*Figure 30. Option card enabled display*

A rectangular box containing the text: Option Card Enabled  
\*-Change, #-Exit

```
Option Card Enabled
*-Change, #-Exit
```

2. Press **Menu** to toggle between the enabled and disabled options. Press **Enter** to exit the menu and save the displayed option.

**Note:** To enable the option card again, change this option to enabled, default the reader, or set this option in a configuration card if this option has not been used already. After disabling this option, a configuration card can only be used once.

## Reader address

The reader is set to RAS address 16 by default. You must change the address for each reader to match your system plan. You can only install and change the address of one reader at a time.

To change the reader address, do the following:

1. From the display in *Figure 31*, enter **12** and press **Enter** to access option 12.
2. Enter the new address number and press **Enter** (*Figure 32*).
3. Press **Menu** to change the address (*Figure 33*).
4. Press **Enter** to return to the main menu. The RAS address will not change until you exit the Smart Card Reader main menu (*Figure 34*).
5. Enter **0** and press **Enter** to exit the Smart Card Reader main menu (*Figure 35*).

*Figure 31. Smart card reader display*

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

*Figure 32. Current RAS address display*

```
Current RAS Adrs:16
(1-16) Adrs:
```

*Figure 33. Change address display*

```
Change Address?
*-Yes, #-No
```

*Figure 34. New address display*

```
New Address:7
0-Exit
```

*Figure 35. Reader address display*

```
12-Reader Address
0-Exit, Menu:
```

The yellow fault LED will be lit on the keypads connected to the same databus (main control panel - system only) as the RAS you are programming, indicating *RAS Fail*. The panel is trying to poll address 16 and failing. Address 16 must be removed from the polling function.

6. Repeat the programming steps in *System databus programming* on page 4, to poll the new RAS address and stop polling RAS address 16.

## Last card badged

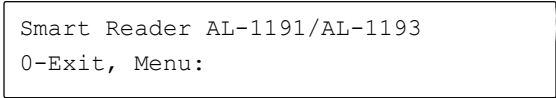
The reader can show details of the last card badged. This provides an easy way to read system codes and user IDs.

To access details of the last card badged, do the following:

1. From the display in *Figure 36*, enter **13** and press **Enter** to access option 13.

---

*Figure 36. Smart card reader display*



```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

2. The display (*Figure 37*) shows:


**FC.** System code (five digits maximum).

**ID.** Card number (seven digits maximum).

Press **Enter** to exit the menu.

---

*Figure 37. Card display*



```
FC=XXXXX, ID=YYYYYYY
#-Exit
```

## Credits and relay time

To set up credit and relay timing, do the following:

1. From the display in *Figure 38*, enter **14** and press **Enter** to access option 14.
2. Enter the token value and press **Enter** (*Figure 39*).
3. Enter the credit account to use and press **Enter** (*Figure 40*).
4. Enter the access level required and press **Enter** (*Figure 41*),
5. Enter the location number and press **Enter** (*Figure 42*).
6. Enter the relay time factor and press **Enter** (*Figure 43*).
7. If no credit relay is set in option 8 (see *Relay option* on page 11), a warning appears (*Figure 44*).  
Press **Enter** to exit the menu.

*Figure 38. Smart card reader display*

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

*Figure 39. Token value display*

```
Token Value:0
(0-65535) No:
```

*Figure 40. Account number display*

```
Account No: 1
(1-4)No:
```

*Figure 41. Access level display*

```
Access Level:1
(1-16)No:
```

*Figure 42. Location number display*

```
Location:1
(1-4)No:
```

*Figure 43. Relay time factor display*

```
Relay Time Factor:5
(1-256)No:
```

*Figure 44. Warning display*

```
No Credit Relay, See menu 8
#-Exit
```

## Last card badged credit check

To check the credit or show the balance for the last card badged, do the following:

1. From the display in *Figure 45*, enter **15** and press **Enter** to access option 15.

*Figure 45. Smart card reader display*

```
Smart Reader AL-1191/AL-1193
0-Exit, Menu:
```

2. The display (*Figure 46*) shows the locations at which the last card badged is valid.

Press **Menu** to view the access level.

*Figure 46. Card locations display*

```
Card Locations:
*-Next, #-Exit
```

3. The display (*Figure 47*) shows the access level. This number must be equal to or greater than the reader access level.

Press **Menu** to view the account numbers and credits.

*Figure 47. Card access level display*

```
Card Access Level:1
*-Next, #-Exit
```

4. The display (*Figure 48*) shows the account number and credits for account 1.

Repeat for accounts 2, 3, and 4.

Press **Enter** to exit the menu.

*Figure 48. Account 1 display*

```
Account 1:0
*-Next, #-Exit
```

## Alliance management software programming

Connect the reader to the system or local databus or a 12 VDC power supply (refer to your reader installation instructions) and badge the configuration card once. The reader will beep once. However, if the new configuration differs from the current configuration, the reader will beep two more times.

To use the configuration card and Alliance management software to program the reader, do the following:

1. On the Alliance management software menu bar, select **Admin > Card Programmer > Write Reader Config. Card**.
  - a. Type the required reader address (1 to 16) in the *Reader's Address* box.
  - b. Select the required options in *Online Blue LED Options* and *Online Red LED Options*.
  - c. Select the required option in *Offline LED Options*.
  - d. Select *Valid Card LED* to enable the valid card LED flash.
  - e. Select *Night Light* to enable the night light.
  - f. Select the required protocol in *Protocol*.
  - g. Select *Valid Card Beep* to enable the beeper option.
  - h. Select *Watchdog* to enable the watchdog option.
  - i. Select the required protocol from *Output Options*.
  - j. Select *Read Option Card* to enable the option cards.
  - k. Select the required protocol in *Egress Control*.
  - l. Set up the credit usage and relay timing:
    - Set the token value in *Reader Token Value*.
    - Select the reader's credit account to subtract from in *Reader Credit Account No.*
    - Set the access level in *Reader Access Level*.
    - Select the reader's location number in *Reader's Location No.*
    - Set the relay time factor in *Output Time Factor*.
  - m. Select the required option in *Security Mode*.
2. Place a configuration card or a blank card on the smart card programmer and click the **Write** button.
3. Badge this card at the reader and check in the RAS database in Installer Programming that the reader is being polled.
4. Repeat the process with a different address for each reader you want to configure.

**Note:** For more information on programming the reader address using the Alliance management software, refer to your Alliance management software online help and documentation.

## Contacting technical support

For assistance installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, you may contact technical support during normal business hours (Monday through Friday, excluding holidays, between 5 a.m. and 5 p.m. Pacific Time).

Table 5. Sales and support contact information

	Sales	Technical support
<b>Phone:</b>	Toll-free: 888.437.3287 in the US, including Alaska and Hawaii; Puerto Rico; Canada). Outside the toll-free area: 503.885.5700.	
<b>Website</b>	<a href="http://www.utcfireandsecurity.com">http://www.utcfireandsecurity.com</a>	
<b>Fax</b>	888.329.0331	888.329.0332

**Note:** Be ready at the equipment before calling for technical support.

## Online publication library

Another great resource for assistance with your WE'Hitg Security products is our online publication library, available to all of our customers on our website. To access our publication library, go to our website at the following location:

<http://www.utcfireandsecurity.com>

In the **Customer Support** menu, select the [Resource Library](#) link. After you register and log on, you may search through our online library for the documentation you need.<sup>1</sup>

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1. Many documents are provided as PDFs (portable document format). To read these documents, you will need Adobe Acrobat Reader, which can be downloaded free from Adobe's website at [www.adobe.com](http://www.adobe.com).