

# **Access Control**



Translation of the original instructions

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VERSION	DATE	CHANGES
1.0	10/01/2023	-

Any information inside this manual can be changed without advice.

This handbook can be download freely from the website: www.eelectron.com

Exclusion of liability:

Despite checking that the contents of this document match the hardware and software, deviations cannot be completely excluded. We therefore cannot accept any liability for this.

Any necessary corrections will be incorporated into newer versions of this manual.

Symbol for relevant information



Symbol for warning



Eelectron S.p.A.

Via Claudio Monteverdi 6, I-20025 Legnano (MI), Italia Tel +39 0331.500802 info@eelectron.com



CE

### 1. Access Control Parameters

#### Configuration

#### Communication objects involved:

" <access> System ID"</access>	2 Bytes	CW
" <access> Legacy"</access>	10 Bytes	CW
" <access> Reset Legacy"</access>	10 Bytes	CW
" <access> Standard"</access>	14 Bytes	CW
" <access> Reset Standard"</access>	14 Bytes	CW
" <access> Transit"</access>	4 Bytes	СТ

KNX PARAMETER SETTINGS	
Card management	standard/legacy
The two methods differ in the length to set the passwords, validity, time is necessary for managing access via of Depending on the mode selected, the will be available. Legacy: the 10B object is used to mic chronicity access control system (for Standard: the 14B object is used to tions of the 9025 RFID Mifare system	slots and all the other information card. he related communication objects aintain compatibility with the <b>Syn</b> - or products sold until 2021). I take advantage of the new func-
Validity start	<hours>, <minutes></minutes></hours>
Validity end	<hours>, <minutes></minutes></hours>
Only in <b>Legacy</b> mode do these para ute of the day the start and end of va <b>Counter function</b>	
See paragraph "Counter" on page	5.
Date control	disabled/enabled
Enables or disables control by the de of the card. To manage the card wi date control.	,
Day hour control	disabled/enabled
Enables or disables control by the of tivate the "day hour control" to m certain time slots (for example in cor	anage the entrances only during nmunal areas).
Week day control	disabled/enabled
Similar to the previous parameter, days of the week. Activate the "we trances only on certain days (for example.)	ek day control" to manage en-
Enables alarms	disabled/enabled
Activating the parameter displays a alarms associated with card reading lect which alarm to activate:	
System ID: system code not recogn Card ID: card code not recognised Card Date: card with incorrect validi Card HOD: Card with incorrect hour Card DOW: card with incorrect day of Card Access: card with access Counter: card with exhausted count For each alarm it is possible to set	ty interval of day of week er
tion on the backlighting LEDs, an a an alarm deactivation time, a 1-bit o	coustic warning with the buzzer,

#### **RGB / LED TOP / BUZZER**

For each element of the **CARD HOLDER** device, it is possible to set a different behaviour for the **Welcome** event and for the **Goodbye** one.

Welcome Event: card inserted and recognised

Goodbye Event: valid card extracted

#### RGB

KNX PARAMETER	SETTINGS	
RGB temporary action	none fixed 500 ms flashing 1s flashing	
This parameter defines the behaviour of the RGB LED.		
Colour	RGB/HSV	
it is possible to set the desired HSV colour method.	colour by choosing between RGB or	

#### TOP LED

KNX PARAMETER	SETTINGS
Top LED action	none temporary flashing switches in off switches in on
This parameter defines the behaviour of the Top LED	

I his parameter defines the behaviour of the Top LED.

#### BUZZER

KNX PARAMETER	SETTINGS	
Buzzer action	no/yes	
Actives or not the buzzer		
Tone tone 1tone 16		
With this parameter it is possible to choose the desired buzzer tone.		

#### Access control

For each command of the **CARD HOLDER** device, it is possible to set a different value for the **Welcome** event and for the **Goodbye** event.

KNX PARAMETER	SETTINGS
Command	no/yes
Enabling the parameter makes visible a generic 1-bit communication object, which sends a telegram at each access, regardless of the type of card read.	
Access types managed	Customer Service Maintenance Electrical Safety Assistance Administrator
For each enabled access level (the customer level is always enabled) a 1-bit command object and a 1-bit enabling/disabling command ob- ject from the bus can be associated. Furthermore, for each type of access enabled, a dedicated configuration page opens.	
Activation telegram	telegram "0" / "1"

Activation telegram telegram "0" / "1"

alarm status on bus.

The parameter refers to the activation value of the disable object. If this parameter is set to the value "1", the command "1" on the enable/ disable object will cause activation of the command object.	
Goodbye telegram delay no delay   1,2 3, 5, 10, 15, 30, 45 seconds 1, 2, 5, 10, 15, 20, 30 minutes	
With this parameter it is possible to set a delay time for sending of the goodbye telegram.	
Send transit even when card no/yes	

This parameter defines whether to send the "<Access> Transit" object for the goodbye event.

#### ACCESS TYPE <X>

The types of accesses available are:

- customer
- service
- maintenance
- installer
- · safety
- assistance
- administrator

This paragraph describes the parameters and objects present on the pages visible when the management of a certain type of access is activated.

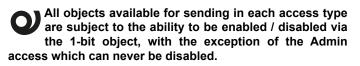
Communication objects involved:

#### COMMON

"Scene <access>"</access>	1 Byte	CRT
"HVAC <access>"</access>	1 Byte	CRT
"Setpoint <access>"</access>	1 Byte	CRT
"Command <access>"</access>	1 Bit	CRT

#### ACCESS TYPE-SPECIFIC

" <access> x - Command"</access>	1 Bit	CRT
" <access> x - Percentage/Angle/Relation/Rate/Puls- es"</access>	1 Byte	CRT
" <access> x – Enable"</access>	1 Bit	CW



For each command of the **CARD HOLDER** device, it is possible to set a different behaviour for the **Welcome** event and for the **Goodbye** event.

Welcome Event: card inserted and recognised

Goodbye Event: valid card extracted

KNX PARAMETER	SETTINGS
State after download	disabled/enabled
Establishes whether after a download the user type is enabled or dis- abled.	

Common objects: Scene command HVAC control Setpoint command	no/yes no/yes no/yes	
There are three objects, one of the scene type, one of the HVAC type and one of the setpoint type, which can send telegrams on the bus upon each access. For each type of access it is possible to enable or disable the use of this object and to define the value to be sent which may be different for each type of access.		
Common objects: Scene value HVAC value Setpoint value	1 64 auto/comfort/standby/economy/ protection -671088 670760	
Defines the value to be sent on the	Defines the value to be sent on the related common object.	
Command	no/yes	
Used to enable the " <access> x - Command" object.</access>		
Command value	telegram "0" / telegram "1"	
Defines the value to be sent on the " <access> x - Command" object.</access>		
1 Byte command	no/yes	
For each type of access it is also possible to activate a further 1 Byte object, distinct for each type, for which to define a data format (DPT) and a value using the following parameters: <b>Datapoint type</b> DPT 5.001 percentage (0 100%) DPT 5.003 angle (degrees) DPT 5.004 percentage (0 255%) DPT 5.005 relation (0 255) DPT 5.010 pulse counter (0 255) <b>1 byte command value</b> 0 255		

#### Hour meter

#### Communication objects involved:

" <access> Counter A – Enable"</access>	1 Bit	CW
" <access> Counter A – Feedback"</access>	1 Byte	CRT
" <access> Counter B – Enable"</access>	1 Bit	CW
" <access> Counter B – Feedback"</access>	1 Byte	CRT
" <access> Counter C – Enable"</access>	1 Bit	CW
" <access> Counter C – Feedback"</access>	1 Byte	CRT
" <access> Counter D – Enable"</access>	1 Bit	CW
" <access> Counter D – Feedback"</access>	1 Byte	CRT

KNX PARAMETER	SETTINGS
Activation telegram	telegram "0" / telegram "1"
Defines which 1-bit telegram value activates the counter function.	
Counter to be decreased after download	none counter A counter B counter C counter D
Defines the counter enabled upon device download.	
Inhibition time [s]	1,5,10.30
With this parameter it is possible to choose a card reading inhibition time.	
Enable feedback objects	disabled/enabled

It defines whether or not to send the state with a 1 Byte object.

#### Alarms

Communication objects involved:

" <access> System ID Alarm"</access>	1 Bit	CRT
" <access> Card ID Alarm"</access>	1 Bit	CRT
" <access> Card Date Alarm"</access>	1 Bit	CRT
" <access> Card HOD Alarm"</access>	1 Bit	CRT
" <access> Card DOW Alarm"</access>	1 Bit	CRT
" <access> Card Access Alarm"</access>	1 Bit	CRT
" <access> Counter Alarm"</access>	1 Bit	CRT
" <access> Alarm Reset"</access>	1 Bit	CW

This paragraph describes the parameters present on the pages visible when an alarm is activated (System ID, Card ID, Card Date, Card HOD, etc.).

KNX PARAMETER	SETTINGS	
Activation telegram	telegram "0" / telegram "1"	
Defines which 1-bit telegram value triggers the Alarm function.		
System ID alarm Monitors the correspondence between the System ID of the card and that of the device, set via the " <access> System ID" object.</access>		
<b>Card ID Alarm</b> Monitors the correspondence between the card number and the list of cards registered on the device.		
<b>Card Date Alarm</b> Monitors the correspondence between the validity window and the card reading date.		
<b>Card HOD Alarm</b> Monitors the correspondence between the validity hours and the card reading hour.		
<b>Card DOW Alarm</b> Monitors the correspondence between the validity days and the card reading day.		
<b>Card Access Alarm</b> Monitors the correspondence between the access types enabled and the access type configured for the card.		
Counter Alarm		

Monitors the number of accesses permitted on the card.

N.B. The alarms are listed in order of control.

KNX PARAMETER	SETTINGS
RGB temperature action	none fixed 500 ms flashing 1 s flashing
Enabling the parameter makes visible a generic 1-bit communication object, which sends a telegram at each access, regardless of the type of card read.	
Colour	RGB/HSV
it is possible to set the desired colour by choosing between RGB or HSV colour method.	

Top LED action	none temporary flashing switches in off switches in on
This parameter defines the behaviour of the Top LED.	
Buzzer action	no/yes
Actives or not the buzzer	
Alarm switch off when a valid "System ID, Card ID etc." is detected	no/yes
Defines whether to stop the alarm when a card correspondence is detected.	
Automatic alarm deactivation [min] (0=never)	no/yes
Enables automatic deactivation of the alarm	
Enables alarm object	disabled/enabled
Used to enable the specific alarm object	