AUTEC
Gesellschaft für Automationstechnik mbH

XMP-BABYLON

OSDP V2 reader protocol

DOOR CONTROLLER

XMP-K32
XMP-K32SX / XMP-K32EX
XMP-K32SX-19 / XMP-K32EX-19
XMP-K12 / XMP-K12EX
XMP-K12-19 / XMP-K12EX-19

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1 Introduction

This Quick Start Guide is intended for experienced access control specialists to set up OSDP V2 card readers in XMP-BABYLON. The guide contains a short description of the procedures for a standard installation of the controllers and settings for a simple operation getting readers to open a door.

For more detailed information, please refer to the installation and configuration manuals for the respective controllers and the appropriate reader manuals used in your project.

The company AUTEC-GmbH is not liable for the completeness of information in this guide.

1.1 Technical support

If you have any queries about the product or if you require technical support, please contact the following address:

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1.2 Copyright

1.3 Requirements

The software extension *-F17 for reader addresses 0 to 3 (by XMP-K12 0 to 1) and the *-F18 + *-F2 for reader addresses 4 to 7 must be activated.

* = XMP-K12, XMP-K32SX, XMP-K32, XMP-K12EX oder XMP-K32EX

The following program & firmware versions must be installed:

k32as.bin	V5.0 vom 03.03.2017 (or newer)
K32b.bin	V5.0 vom 03.03.2017 (or newer)
W3K32P.exe	V6.0 vom 15.02.2017 (or newer)

2 Supported card reader

2.1 AR10S-MF (Vanderbilt)

Function	**Yes / No**
Communication via OSDP V1	No
Communication via OSDP V2	Yes
Keyboard / PIN code	No
Display	No
Tamper contact	No
CRC (Flag 1 in 2F attribute)	No
7 Byte UID (Flag 2 in 2F attribute)	Yes

2.2 AR40S-MF (Vanderbilt)

Function	**Yes / No**
Communication via OSDP V1	No
Communication via OSDP V2	Yes
Keyboard / PIN code	Yes
Display	Yes
Tamper contact	No
CRC (Flag 1 in 2F attribute)	No
7 Byte UID (Flag 2 in 2F attribute)	Yes

2.3 RPK40 multiCLASS SE (HID)

Function	**Yes / No**
Communication via OSDP V1	Yes
Communication via OSDP V2	Yes
Keyboard / PIN code	No
Display	No
Tamper contact	No
CRC (Flag 1 in 2F attribute)	Yes
7 Byte UID (Flag 2 in 2F attribute)	No

2.4 VOXIO Touch (phg)

Function	**Yes / No**
Communication via OSDP V1	No
Communication via OSDP V2	Yes
Keyboard / PIN code	Yes
Display	No
Tamper contact	No
CRC (Flag 1 in 2F attribute)	No
7 Byte UID (Flag 2 in 2F attribute)	Yes

3 Configuration

3.1 Baud rate

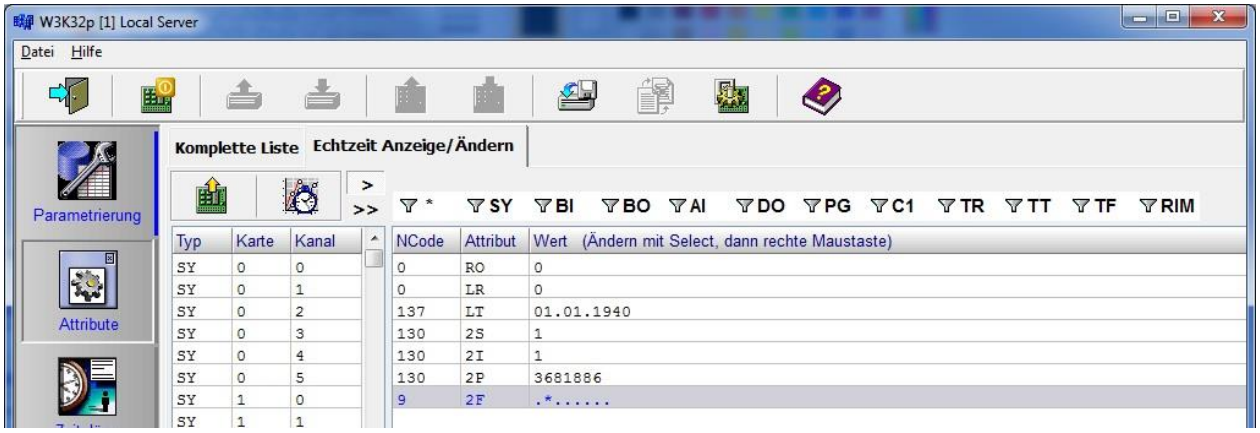
The controller baud rate must be changed to 9600 or 19200. This depends on the used card reader type. The detailed description can be find in the installation manual of the door controllers.

3.2 Settings W3K32P

The serial protocol type 8 and variant 2 must be used.

3.3 Special reader attributes

Under data point SY, card 2, channel 9 to 16 the OSDP V2 attributes are located.



Attribute	Description
RO	Reserved
LR	Reserved
LT	Reserved
2S	OSDP V2 Sync Status: 1 = synchronized, 0 = not synchronized
2T	Counter for Sync. An error performs one Sync
2P	Polling Counter
2F	*……. = CRC turned .*…… = MIFARE 7 Byte UID as by TMC2350

* = XMP-K12, XMP-K32SX, XMP-K32, XMP-K12EX or XMP-K32EX

4 Specific settings / functionallities

4.1 AR40S-MF – Display control

Via a XMP-Routine the display can be controlled:

Sample: Display date + time:

print 0,"k0\02\03\01\01\20%02d.%02d.%04d %02d:%02d ",CD,CM,CY,TIME/60,TIME%60

Byte	Name	Meaning	Value
0	Reader Number	0 == Reader-00	Any
1	Text Command	How to treat the text	See Below
2	Temp Text Time	The duration to display temporary text, in seconds	See Below
3	Row	The row where the first character will be displayed	1 is the top row
4	Column	The column where the first character will be displayed	1 is the left-most column
5	Text Length	Number of characters in the string	Any
6 - N	String	The string to display	Valid ASCII characters

Text Command	Meaning
0x01	permanent text, no wrap
0x02	permanent text, with wrap
0x03	temp text, no wrap
0x04	temp text, with wrap

5 Document History

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V1.0	29.05.2017	First release

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Since mistakes - in spite of all efforts - cannot be avoided completely, we appreciate hints at any time.

The installation recommendations gained in this manual presume the most favorable general conditions. AUTEC gives no guarantee for the perfect function of an installation in system foreign environments.

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