

Net2 Integration with Uhlmann & Zacher - Clex Cylinder Lock



Uhlmann & Zacher have a cylinder lock with proximity built in that is able to integrate with Paxton Net2 controllers. The cylinder lock is a battery powered device with either a single or double sided integrated reader. The readers come in two variants; Mifare and EM 125kHz. A wireless module connects to the reader port via a Wiegand connection and also connects to the relay of the controller to actuate the relay function when a token is presented.

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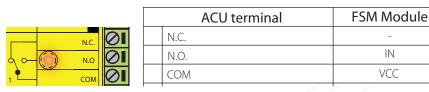
Both devices are required in order for the reader to operate correctly. A Wiegand rule is required in the configuration utility and the reader set to Wiegand custom in the door settings. More information on this is covered in the Paxton datasheet. Units can be ordered direct from the manufacturer and can receive a discount of 20% if Paxton is mentioned on the order. For details please email: hartmut.beckmann@uundz.de

Tokens:

If a mix of Paxton readers and U&Z cylinders are installed on a site using Paxton tokens, the token number read by the cylinder is different to the token number read by the Paxton readers and the Net2 Desktop reader. This means tokens will need to be enrolled twice. Once using the Net2 Desktop reader and again using the cylinder lock as a desktop reader. This will ensure that both token numbers are stored in the user record within Net2. Alternatively, Paxton EM-tokens (250-110 keyfobs with grey ring or 250-120 cards) can be used as the same number is read by both readers

			ACU terminal	FSM Module
	12V	10	+12V	VCC
	LED 🔴	10	Red LED	-
	LED 🔵	10	Amber LED	-
	LED 🔵	10	Green LED	-
2V DC	Data/D0	10	Wiegand D0	Data 0
	Clock/D1	10	Wiegand D1	Data1
1		10	NOT USED	-
	ov	10	OV	GND

Ensure any unused wires are safely terminated.





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3rd Party

1.1. Initial commissioning

Taught Servicekeys

- 1. Present the Servicekey to the Cylinder Lock -> beep 1x low, 1x high and green LED flash.
- 2. Present Change Battery Card to the Cylinder Lock -> beep 2x short.
- 3. Present Dismantling Card to the Cylinder Lock -> beep 2x short.
- 4. (Optional) Taught Emergency Card. (emergency opening from the door, in case of lost wireless connection)
- 5. (Optional) For exit this procedure, present the Servicekey.

1.2 Linking Cylinderlock and Wireless Module

- 1. Unscrew the wireless module case.
- 2. Hold the red button on the wireless module for 8 seconds, after release a red LED will flash.
- 3. Present the Servicekey to the Cylinder Lock -> Beep 1x low, 1x high and green LED will flash.
- 4. Press red button again for closing the servicemode, Cylinderlock will beep 1x.

2. Net2 Software Configuration:

1: Open Net2 Configuration Utility and go to tab - Wiegand's.

- 1.1. Place a checkmark to the left of Wiegand configuration
- 1.2. Change Number of Bits to 32

Net2 Server Col	X X X X X X X X X X X X X X X X X X X
	niguration Utility
Constal Datable	e Wiegand TCP/IP Nodes Net2Air Bridges HTML Reports Features Diagnostics Printer Options Email SMS
perierai Darabas	3 milligana ICEVIE Nodes Net24ii Biloges FI ML Reports Features Diagnostics Finiter Options Email 5MS
	\smile
🔽 Wiegand Co	ifiguration
Number of bits	32 📩
Rule 1	халаааааааааааааааааааааааааааа
B 1 2	
Rule 2	XDDDDDDDDDDDDDDDXXXXXXXXXXXXXXXXXXX
Rule 3	XXXXXXXXXXXDDDDDDDDDDDDDDDDD
Rule 4	
Rule 5	
Rule 2 = EDDD	1101AAAAAAAAAAAAAAAAAX
E-Even parity of O-Odd parity of	ed for calculating parity check for rule.
0-Must be zero 1-Must be one A-Token numbe D-Data to be us E-Even parity of 0-Odd parity of	*********************************

- 1.5. For Rule 3 type in following row of computer keys: XXXXXXXXXXXXXDDDDDDDDDDDDDDDDDDD
- 1.6. Click on 'Apply' and 'OK' to end the configuration.

2. Open Net2 Access Control Software and go to Doors tab:

- 2.1: Choose and double click a door to open the door configuration page.
- 2.2. Choose Wiegand reader as Reader type.
- 2.3. For the token data format choose Wiegand custom.

ACU serial number: 02246252				
Door name	Test Net2 Plus			
Door group	(none)			
Door open time	4 - seconds			
Unlock the door during	At no time			
	Only unlock the door once a user has been granted access Silent operation			
Unlock relay 2 during	At no time			
Reader 1 Reader 2 Alarm B	Events Fire alarm inputs Intruder Alarm Access rights			
Reader details				
Name	Test Net2 Plus (In)			
Reader type	Wiegand reader			
Keypad type	None			
Token data format	Wiegand custom			
Operating mode				
Reader operating mode	Token only			
Timed operating modes - This	s allows for different reader operation during a selected timezone.			
During this timezone:	All day, every day			
This reader will operate as:	S Inactive			
Reader action - This is what will h	happen when a valid access is granted.			
	Relay 1 opens for door open time			

2.4. Reader operating mode is Token only.

2.5. Click on Apply to save this configuration.

3. Function test:

- 1. Present a keyfob to the Cylinder Lock.
- 2. Please Check to see if the red LED from the wireless module will flash a short time.
- 3. Net2 ACU should beep now.
- 4. In case of granted access the Cylinder Lock should engage the clutch.



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