

ACL805SUW-RDPX

Reader Installation Sheet

EN

Surface Mount Keypad with EM/CASI/HID Proximity reader



Description

The **ACL805SUW-RDPX** is a Multiprotocol digital keypad and proximity reader for access control applications with backlit keys and a selectable output protocol. These surface mount readers includes a buzzer and a tri-color LED for state indication (access granted, access denied or idle).

The ACL805SUW-RDPX is capable of reading Casi Rusco, EM and HID.

Figure 1: Angled front view

Mounting

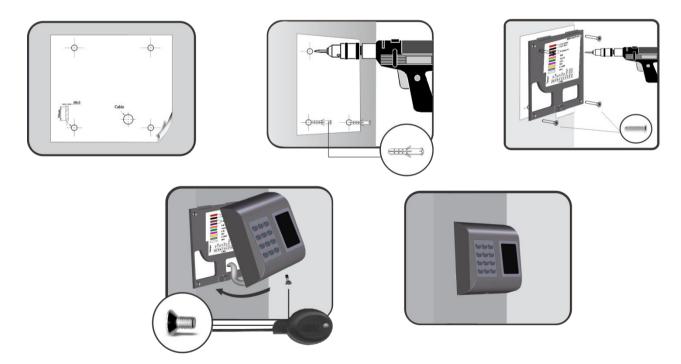


Figure 2: Mounting instructions

<u>Wiring</u>



1	tamp	Tamper
2	tamp	Tamper
3	LG-	LED Green minus
4	LR-	LED Red minus
5	GND	Ground
6	+12 V	9 to 14 VDC
7	D0	Data 0
8	D1	Data 1

Figure 3: Wiring instructions

Specifications

Operating voltage	9 to 14 VDC					
Current consumption	110 mA at 12 VDC					
	Wiegand according to the card type					
Interface Brovimity Booder	Wiegand 32 bit : EM410x Cards					
Interface Proximity Reader	Wiegand 40 bit : Casi-Rusco					
	Automatic Wiegand - HID Cards					
EM410x	32 data bits					
	Pulse width: 100 µs					
Wiegand 32 description	Pause: 1 ms					
	Wiegand for EM410x Cards					
	even parity + 38 data bits + odd parity					
Casi-Rusco	Pulse width: 100 µs Pause: 1 ms					
Wissingly 40 description	P1 = even parity calculated over the bits 1 to 19					
Wiegand 40 description	P2 = odd parity calculated over the bits 1 to 19					
	Wiegand for Casi-Rusco cards					
HID	Automatic Wiegand according to the HID card type					
Wiegand 26 – 37 bit						
Interface Keynad	Wiegand 26, 30, 34, 40, 42, 58 bit,					
Interface Keypad	8 bit per key, 6 bit per key, 4 bit per key					
	even parity + 24 data bits + odd parity					
	Pulse width: 100 µs					
Wiegand 26 description	Pause: 1 ms					
	P1 = even parity calculated over the bits 2 to 13					
	P2 = odd parity calculated over the bits 14 to 25 even parity + 28 data bits + odd parity					
	even parity ± 28 data pits ± 000 parity					
Wiegand 30 description	Pulse width: 100 µs					
Wiegand 30 description	Pulse width: 100 µs Pause: 1 ms					
Wiegand 30 description	Pulse width: 100 μs Pause: 1 ms P1 = even parity calculated over the bits 2 to 15					
Wiegand 30 description	Pulse width: $100 \ \mu s$ Pause: 1 ms P1 = even parity calculated over the bits 2 to 15 P2 = odd parity calculated over the bits 16 to 29					
Wiegand 30 description	Pulse width: 100 μs Pause: 1 ms P1 = even parity calculated over the bits 2 to 15					
	Pulse width: 100 µs Pause: 1 ms P1 = even parity calculated over the bits 2 to 15 P2 = odd parity calculated over the bits 16 to 29 even parity + 32 data bits + odd parity					
Wiegand 30 description Wiegand 34 description	Pulse width: 100 μsPause: 1 msP1 = even parity calculated over the bits 2 to 15P2 = odd parity calculated over the bits 16 to 29even parity + 32 data bits + odd parityPulse width: 100 μs					

Wiegand 40 description	even parity + 38 data bits + odd parity Pulse width: 100 μs Pause: 1 ms P1 = even parity calculated over the bits 2 to 20 P2 = odd parity calculated over the bits 21 to 39					
Wiegand 42 description	even parity + 40 data bits + odd parity Pulse width: 100 μs Pause: 1 ms P1 = even parity calculated over the bits 2 to 21 P2 = odd parity calculated over the bits 22 to 41					
Wiegand 58 description	even parity + 56 data bits + odd parity Pulse width: 100 μ s Pause: 1 ms P1 = even parity calculated over the bits 2 to 29 P2 = odd parity calculated over the bits 30 to 57					
Wiegand 8 bit per key description	8 data bits (sent on each key press) Pulse width: 100 μs Pause: 1 ms					
Wiegand 6 bit per key description	6 data bits (sent on each key press) Pulse width: 100 μs Pause: 1 ms					
Wiegand 4 bit per key description	4 data bits (sent on each key press) Pulse width: 100 μs Pause: 1 ms					
PIN Code length	1 to 8 digits					
LED control	Yes, by wires					
LED	Green : Externally controlled Red : Externally controlled Orange : Idle, Key press and Menu					
Tamper	Yes					
Cable distance	50 m according to Wiegand standard					
Panel connection	Cable, 1 m					
Material of design housing	ABS					
Dimensions (W x H x D)	100 x 94 x 30 mm					
Operating Temperature Relative humidity	−20 to +50°C0 to 95% noncondensing					
IP rating	IP65					
Color	-S = Silver, -G = Grey					
Weight (shipping) Weight (product)	550 g 250 g					

DIP switch settings – Proximity Reader

1.Backlight in idle mode ON/OFF 2.Buzzer on card read ON/OFF 3. not used 4.Enable HID (ON_OFF) 5. Enable EM or CASI (ON_OFF) 6. Select EM or CASI (ON-EM; OFF-Casi Rusco)



Card type selection



HID only HID and EM HID and Casi

Casi only

EM only

Settings in TruPortal Software

Go to System Administration/Card Formats. Select the Wiegand format that corresponds to the card type:

- 32 bit 14443 cascade 1 for EM Cards
- 40 bit CASI 4002 for Casi-Rusco Cards
- The HID formats available for HID Cards

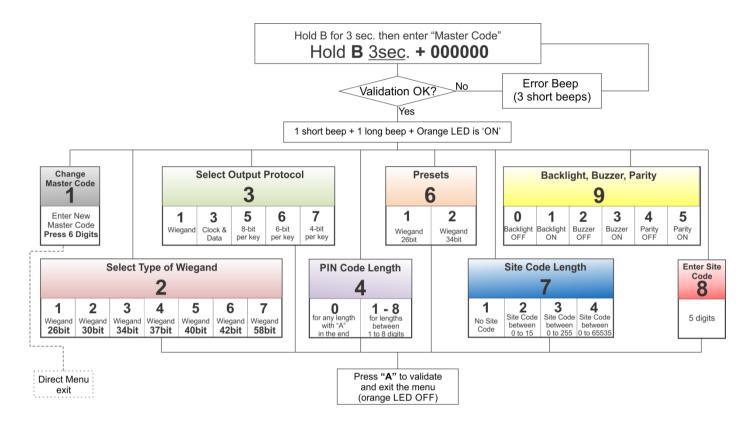
	Format Name:								
1 =	32bit raw								
	Format Type:								
	32 Bit 14443 cascade 1								
Facility Code:									
Total Bit Length:									
32									
Data Field:	Starting Bil	1	Bit Length:						
Card Number	0		32						
Facility Code	0		0						
Issue Code	0		0						
Parity Type:	Start Offset:	Length:	Check Bit Offset:						
Even	0	0	0						
Odd	0		0						

ſ	Format Name:								
	Format Type: 40 Bit CAST 4002	_		v					
Facility Code: 0 Total Bit Length: 40									
Data Field:	Starting E	Bit:	Bit Length:						
Card Number	1		38						
Facility Code	0		0						
Issue Code	0		0						
Parity Type:	Start Offset:	Length:	Check Bit Offset:						
Even	1	19	0						
Odd	0	39	39	1					

Settings in pcProxConfig Software

Select Casi Rusco (GE Security, UTC) or EM 410x or some of the available HID formats as card type. Use these settings in the pcProx Config Software when reading the card via the TP-RDR-LRN desktop Reader.

EM		Casi R	usco
pcProxConfig pcProx® and pcProxPlus® Enroll Configuration Util File Connect Device Navigation View Card Analyzer Help	ity for USB, Serial & Ethernet Readers — 🗌 🗙	pcProxConfig pcProx® and pcProxPlus® Enroll Configuration File Connect Device Navigation View Help	on Utility for USB, Serial & Ethernet Readers
Connect Disconnect Write Active		Connect Disconnect Write Active	
Configuration # 1 V EM 410x : RDR-6E8x Compatible	✓ High priority	pdProxPlus Configuration # 1 CASL-RUSCO (GE Security, UTC) : RDR	-628x Compatible
Connect Timing SDK Format Secure Bluetooth®	C Extended / Hashing	Connect Data format Delimiters Timing SDK Extended	
Data format Delimiters Extended Hashing	C Extended / Hasiling		654321XYZT GN
ABC 123 : 98765	4321XYZT GN	Wiegand to keystroke data format Parity bits	Advanced settings
Wiegand to keystroke data format Parity bits	Advanced settings	Strip leading bit count	Only read cards with this bit count
Strip leading bit count	Only read cards with this bit count	Strip trailing bit count	
Strip trailing bit count	Display hexadecimal in lowercase (a-f)	Send FAC Send FAC as hexadecimal number	Use numeric keypad for 0-9 (European) AZERTY keyboard shift lock
Send FAC Send FAC as hexadecimal number	AZERTY keyboard shift lock		FAC extended precision math on
Send ID Send ID as hexadecimal number	FAC extended precision math on	Send ID Send ID as hexadecimal number	ID extended precision math on
ID held bit count	ID extended precision math on	ID field bit count	Reverse Wiegand bytes
Fix length FAC / ID fields	Reverse Wiegand bytes	Fix length FAC / ID fields	Reverse Wiegand bits
FAC digits 3	Reverse Wiegand bits	FAC digits 6	V Invert Wiegand bits
ID digits 5	Invert Wiegand bits Emulate ProxPro - append serial checksum	ID digits 6	Emulate ProxPro - append serial checksum
		Output test area	
Output test area	Data fara Data dar 🖉	Auto GetID	🗌 Auto focus 🗌 Auto dear 🛛 🚺
Auto GetID	🗌 Auto focus 🗌 Auto dear 🛛 🗾	Card ID shown here when Auto ID is checked	
88011378 185006818	^		۸ ۳
	USB #01 LUID:0/0x0000	Ready	USB #01 LUID:0/0x0000



Entering Menu is always done with B(3 s) + 000000 if the Master Code is not changed.

Submenu 1 - Change Master Code. The Master Code must be 6 digits. After enrolling new Master Code the ACL875W automatically exits the Menu and the new master code must be typed to enter the menu.

Submenu 2 - Select Type of Wiegand. The Wiegand selected must be the same as the controller's Wiegand Input where the ACL805SUW-RDPX Keypad is being connected. Example: If you use a controller that recognizes Wiegand 34 bit, then enter the menu of ACL805SUW-RDPX, press 2, then press 3.

Submenu 3 - Select Output Protocol. Keypad have the following outputs:

- 3-1 Single Wiegand Keypad will send code in Wiegand format
- 3-3 Clock & Data Keypad will send the code in Clock & Data format
- 3-5 8 bit per key Each key press will be sent as 8 bit data immediately. Key press will be sent as following table:

Кеу	0	1	2	3	4	5	6	7	8	9	А	В
Wiegand output	240	225	210	195	180	165	150	135	120	105	90	75

3-6 6 bit per key - Each key press will be sent as 6 bit data immediately.

3-7 4 bit per key - Each key press will be sent as 4 bit data immediately.

Submenu 4 - PIN Code Length. If "0" is selected, then any PIN Code with any length can be sent, but the PIN Code is typed with "A" for confirmation (ex. 123 + A). If 1 to 8 is selected the PIN Code length is set by the number selected.

Submenu 6 - Presets. The Presets are set of preprogrammed parameters for easy programming.

6-1 "Wiegand 26 bit Normal" -Type: Wiegand 26 bit; Output: Single Wiegand; PIN Length: 4 digits;6-2 "Wiegand 34 bit Normal" -Type: Wiegand 34 bit; Output: Single Wiegand; PIN Length: 4 digits;

Submenu 7 - Site Code Length. Set the code length sent to Host. Default is "0". To be used only in specific cases.

Submenu 8 - Enter Site Code. Put the site code always in 5 digit format (ex. 00170).

Submenu 9 - Turns ON/OFF the backlight in idle mode, buzzer on key press, parity bit.

Reset Master Code

- 1. Disconnect Power
- 2. Press and hold "A" and reconnect Power.
- 3. Hold the "A" Key for at least 3 seconds.

Default Master Code: 000000

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	Authorized EU manufacturing representative:
	UTC Fire & Security B.V.
	Kelvinstraat 7, 6003 DH Weert, Netherlands
Version	This document applies to ACL805SUW-RDPX hardware
Certification and Regulatory information	CE 🗵
	This product herewith complies with requirements of EMC directive 2014/30/EU, Radio Equipment Directive 2014/53/EU. In addition it complies with RoHS directive EN50581:2012
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