

ACL805SUW-RDMF

Reader Installation Sheet

EN

Surface Mount Keypad with Mifare reader



Description

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

ACL805SUW-RDMF is capable of reading Mifare cards/fobs (13.56 MHz).

Figure 1: Angled front view

Mounting

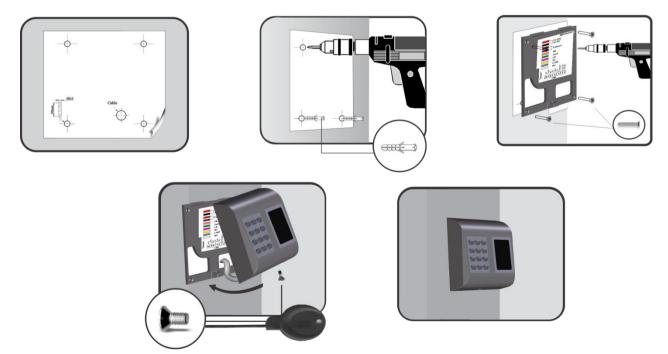


Figure 2: Mounting instructions

<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	210 mA at 12 VDC
Interface Mifare Reader	Wiegand 32 or 56 bit, according to the ID length of the card
Wiegand 32 description	32 data bits Pulse width: 100 μs Pause: 1 ms
Wiegand 56 description	56 data bits Pulse width: 100 μs Pause: 1 ms
Interface Keypad	Wiegand 26, 30, 34, 40, 42, 58 bit, 8 bit per key, 6 bit per key, 4 bit per key
Wiegand 26 description	even parity + 24 data bits + odd parity Pulse width: 100 μ s Pause: 1 ms P1 = even parity calculated over the bits 2 to 13 P2 = odd parity calculated over the bits 14 to 25
Wiegand 30 description	even parity + 28 data bits + odd parity Pulse width: 100 μ 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 34 description	even parity + 32 data bits + odd parity Pulse width: $100 \ \mu s$ Pause: 1 ms P1 = even parity calculated over the bits 2 to 17 P2 = odd parity calculated over the bits 18 to 33
Wiegand 40 description	even parity + 38 data bits + odd parity Pulse width: 100 μ s 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
Read range	Up to 6 cm, depending on the card type
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°C 0 to 95% noncondensing
IP rating	IP65
Color	-S = Silver, -G = Grey
Weight (shipping) Weight (product)	550 g 250 g

Backlight and Buzzer



1. Backlight in idle mode Orange ON/OFF

2. Buzzer on card read ON/OFF

Settings in TruPortal Software

Go to System Administration/Card Formats.

Create custom Wiegand Format for Wiegand 56 bit and Wiegand 32 bits.

The reader will send the Wiegand format according to the card format. If the card presented has 56 bit number, the reader will send Wiegand 56 bit. If the card presented has 32 bit number, the reader will send Wiegand 32 bit.

1 -	32bit raw								
-0	Format Type:								
Facility Code:									
0									
Total Bit Length:	_								
32									
Data Field:	Starting Bit		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	0						

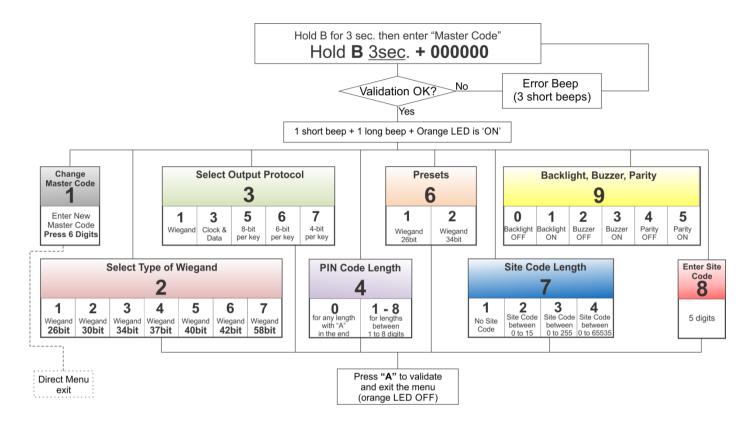
	i omac name.							
1 7	56 bit r	aw						
-0	Format Type:							
	Custom							-
Facility Code:								
0								
Total Bit Length:	_							
56								
Data Field:		Starting B	Bit:		E	Bit Leng	th:	
Card Number		0			5	56		
Facility Code		0			()		
Issue Code		0			()		
Parity Type:	Start O	ffset:	I	Length:			Check Bit Offset:	
Even	0			0			0	
Odd	0			0			0	

Settings in pcProxConfig Software

Select Mifare CSN (Philips, NXP) as card type.

Use these settings in the pcProxConfig Software when reading Mifare Card via the TP-RDR-LRN desktop Reader.

pcProxConfig pcProx® and pcProxPlus® Enroll Configuration Utility for USB, Serial & Ethernet Readers – X File Connect Device Navigation View Card Analyzer Help
Connect Disconnect Write Active
configuration # 1 MIFare CSN (Philips, NXP) Image: Mifare CSN (Philips, NXP) Connect Timing SDK Format Secure Bluetooth®
Output test area Output test area Auto GetID
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-RDMF Keypad is being connected. Example: If you use a controller that recognizes Wiegand 34 bit, then enter the menu of ACL805SUW-RDMF, 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:

Key	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).

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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-RDMF 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						
Contact information	https://firesecurityproducts.com or www.interlogix.com						
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