

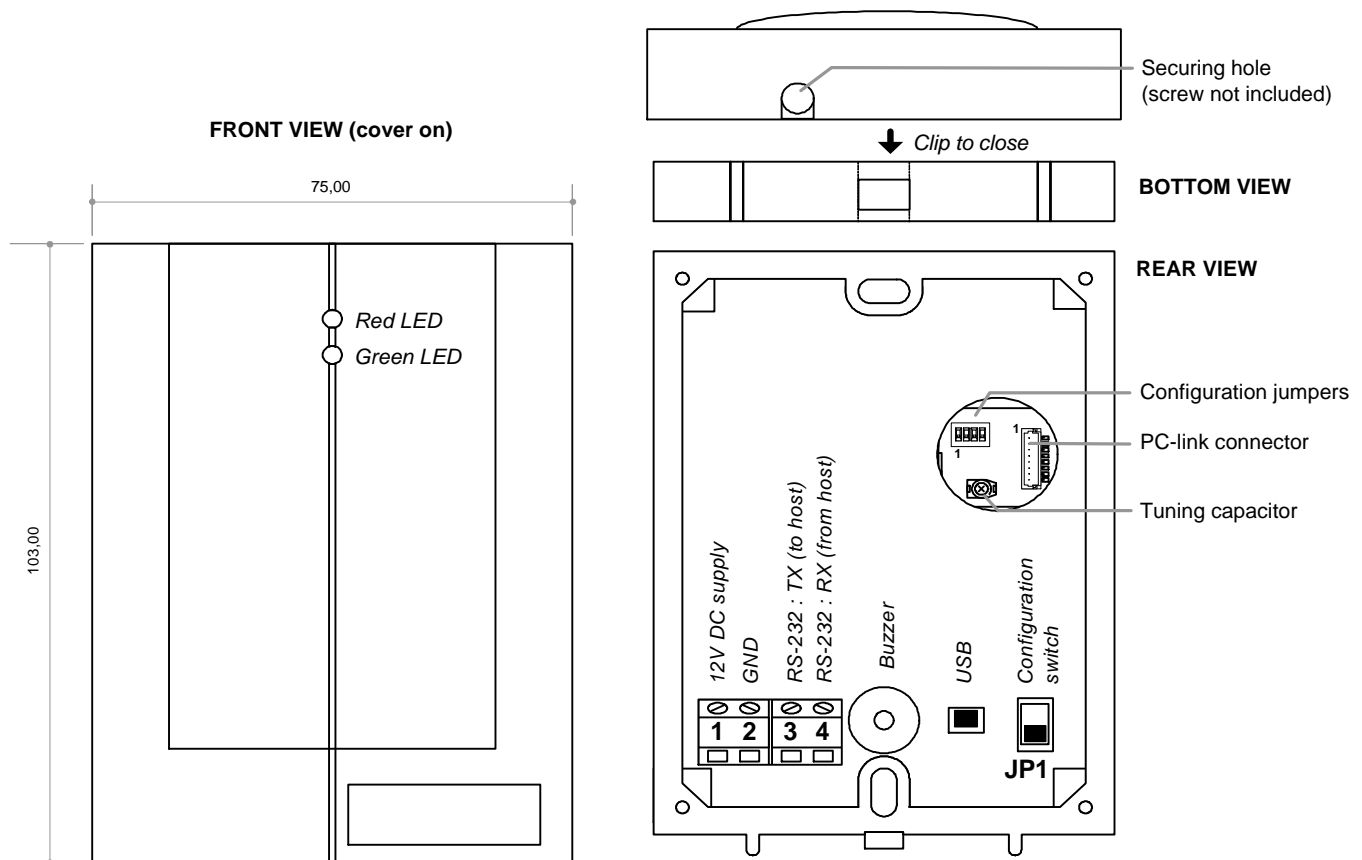
**WALL-MOUNT CONTACTLESS READER (RS-232/USB)**

**IWM-K632-SU** is an highly customizable wall-mount contactless reader. It reads virtually any kind of ISO/IEC 14443 proximity cards, and ISO/IEC 15693 vicinity tags or transponders.

This reader is intended to be used for corporate access control with high level security requirements. It is also suitable for cash or vending machines. 2 output modes are available :

- RS-232,
- USB (virtual serial device, using FTDI USB to RS-232 bridge).

Frame length and format are fully customizable.

**DETAILED VIEWS****PIN ASSIGNMENT**

	RS-232	USB
1	12 V power supply	Not used
2	Ground	Not used
3	TX	Not used
4	RX	Not used
J3	Not used	USB to computer

Pins marked as "not used" must be kept unconnected

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**TECHNICAL DATASHEET**

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**Pro Active**  
Parc Gutenberg  
13 voie Lacardon  
91120 Palaiseau  
France


Phone : +33 1 64 53 20 10  
Fax : +33 1 64 53 20 18  
e-mail : [info@pro-active.fr](mailto:info@pro-active.fr)  
website : [www.pro-active.fr](http://www.pro-active.fr)

S.A.S. au capital de 227 000 €  
R.C.S. EVRY B 429 665 485  
A.P.E. 722 Z  
VAT # : FR 27 429 665 482 00015

**WALL-MOUNT CONTACTLESS READER (RS-232/USB)****SPECIFICATIONS**

<b>ISO compliance</b>	ISO/IEC 14443-A/B 1, 2, 3 & 4 ISO/IEC 15693 1, 2 & 3	<b>RS-232 mode</b>	3-wire RS-232 serial communication <i>RX / TX at +12/-12 V</i>
<b>RFID operating frequency</b>	13.56 MHz	Distance to computer :	max 3m
<b>Card reading distance</b>	5cm typ., min 0cm, max 8cm <i>depending both on card characteristics and Installation particularities</i>	<b>USB mode</b>	Standard USB 1.1 interface, type B connector <i>Seen as a virtual serial port, with drivers available for Windows, Linux and others<sup>4</sup></i>
<b>Supported cards<sup>2</sup></b>	NXP ICODE1 NXP MIFARE Classic & UltraLight NXP DESFIRE, SmartMX, MIFARE ProX Infineon SLE66 STMicroelectronics ST19 ... Other cards (Calypso <sup>1</sup> , Jewel, SR176...) : on request.	Distance to computer :	max 3m
<b>Buzzer</b>	Single-tone beeper	<b>Common information</b>	
<b>Power supply</b>	RS-232 mode : 12 V DC 250mA <i>linear supply recommended</i> USB mode : self-powered by USB <i>bus must be able to deliver 400mA</i>	Baud rate <sup>3</sup> :	1200, 2400, 4800, 9600, 19200, 38400 or 115200 bps
<b>Consumption at 12V DC</b>	average : 80mA peak : 250mA	Output format <sup>3</sup> :	Hexadecimal string, 4 to 16 bytes (8 to 32 chars)
<b>CE mark</b>	EN50082 / EN55022 class B	LEDs & buzzer :	Driven by short commands
		<b>Temperature range</b>	Operation : 0°C → +45°C Storage : -10°C → +55°C
		<b>Housing</b>	ABC-94HB
		<b>Color</b>	Black
		<b>Dimensions h x l x d</b>	103 x 75 x 23 (mm)
		<b>Weight</b>	180g

<sup>1</sup> Calypso card support is subject to extra license fees<sup>2</sup> 1 to 4 card accepting templates can be defined through PC-link connector or using master cards<sup>3</sup> Output format, baud rates and related transmission options are fully configurable through PC-link connector or using master cards<sup>4</sup> See [www.ftdichip.com](http://www.ftdichip.com) for a complete list**HARDWARE CONFIGURATION**

	ON	OFF
<b>Jumpers</b>		
ON		
		
1 2 3 4		
	1 Normal mode	Console mode
	2 Flash mode	Normal mode
	3 Buzzer enabled	Buzzer disabled
	4	Not used

Use a small and sharp pin to change jumper position.  
Flash mode must be set only for firmware upgrade  
operation. Select "console mode" (jumper 1 OFF) only when  
configuring the reader through PC-link connector.

JP1 switch

**SOFTWARE SETTINGS**

Secured "master cards" can be provided by Pro-Active or  
generated using **iwmk632cfg** Windows-based software,  
for an easy configuration of the reader.

Alternatively, software configuration can be defined  
through RS-232 or USB connection.

**Please refer to PMAA061 reference manual for  
details regarding configuration and operating  
instructions.**

**INSTALLATION PRECAUTIONS**

Reader is shipped un-configured. Appropriate configuration must be applied (configuration jumpers and software settings) before  
installing the reader.

This device is a contactless reader ; it uses inductive coupling (magnetic field) to power and read the cards. Precaution must be  
taken to keep the reader free from any source of perturbation (e.g. other readers, lift machines, electrical motors...). Installing the  
reader on a metal surface (aluminum or steel door frame, iron-armed concrete walls...) may dramatically shorten operating distance  
and increase power consumption.

The reader must be protected from rain and excessive humidity.

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