



MODEL NUMBER: XRM900-4-0-GB-XX

# IMPROX RM

## ImproX (RM) USB Registration Reader (Mifare) INSTALLATION MANUAL

### SPECIFICATIONS

<b>Working Environment</b> .....	The Registration Reader is designed to work in an indoor environment similar to IP42. The Registration Reader is, therefore, NOT sealed against water.	
<b>Scanner Operation</b> .....	13.56 MHz.	
<b>Input Voltage</b> .....	5 V DC Supplied from the USB Port.	
<b>Power Requirements</b>	<b>Current (mA)</b>	<b>Power (W)</b>
Maximum Current Drawn from the USB Port .....	200	1.0
<b>Buzzer</b>		
Volume and Tone.....	Four volume, single tone (Software dependent).	
<b>Status Indicators</b>		
Status LED.....	Single, bi-colour Red/Green LED.	

### INSTALLATION INFORMATION

#### Accessories

Find the following when unpacking the Registration Reader:

- An ImproX (RM) USB Registration Reader housed in a Natural, Anodised, Aluminium extruded Cabinet. The ImproX RM consists of a Front Cover, a Base Frame and two Side Plates. This Registration Reader is terminated with a 1.8 m (5.90 ft) standard USB Cable with a Type A Connector at one end.
- An extra Fixed Address Label.

Blank Space

## General

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Remember the following when installing the Registration Reader:

### Communications Distance

- DO NOT extend the supplied USB Cable.
- The USB communications distance between the Host PC and the Registration Reader MUST NOT exceed 1.8 m (5.90 ft).

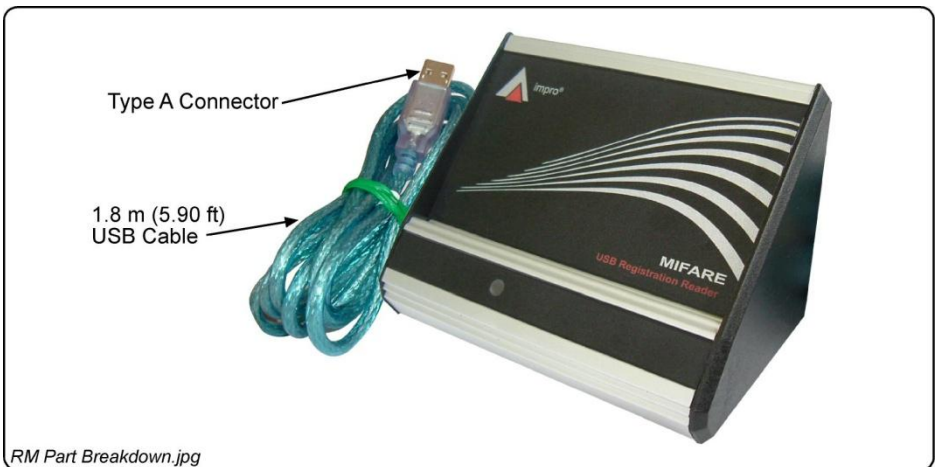
### Distance between Registration Readers from the SAME Host PC

To avoid mutual interference place the Registration Readers no closer than 500 mm (20 in) apart.

## CONNECTING THE REGISTRATION READER

There is no installation required for the ImproX RM.

1. Using the USB Cable (Type A Connector) supplied, connect the Registration Reader to one of the Host PC's unused USB Ports.
2. Place the Registration Reader in a convenient location near the Host PC.



**Figure 1: ImproX RM (with USB Cable and Type A Connector)**

**NOTE:** *Figure 1 shows the USB Registration Reader, the same details apply to the USB Utility Registration Reader.*

### Power-on Self-test

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The Power-on Self-test tests the RAM, Flash Checksums and the Read/Write Circuitry. If any parameter in the Self-test fails, the Registration Reader emits a continuous beep for 2 seconds.

When the Registration Reader passes the Self-test, it emits two short beeps, each 200 ms in duration, separated by a 200 ms inter-beep pause.

## Testing the Connection

When you connect the Registration Reader to the PC for the first time, the PC will prompt you to install the necessary Drivers. The Drivers are stored on the IXP300/IXP400 Software CD. Once installed, the Registration Readers Status LED will illuminate Red (steady).

This confirms the Registration Readers connection is correct and working.

Further connections on the same PC will not call for reloading the Drivers.

## Fixed Address Label

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Keep the Fixed Address Label in a safe place, as you may need the Label at a later date if you wish to upgrade your Software.

## GUARANTEE OR WARRANTY

This product conforms to our Guarantee or Warranty details placed on our Web Site, to read further please go to [www.impro.net](http://www.impro.net).

### USER NOTES

## USER NOTES

This manual is applicable to the ImproX (RM) USB Registration Reader,  
XRM900-4-0-GB-03.

(The last two digits of the Impro stock code indicate the issue status of the product).

XRM301-0-0-GB-02

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