



# ImproX ISR

## Product Specification Catalogue

The **ImproX (ISR) IXP220 USB Registration Reader** forms part of the IXP220 Access Control System, supporting a USB interface.

The ImproX ISR allows for Web-based Tag enrollment as well as enrollment from the Base Application in IXP220-1, IXP220-2, IXP220-3 and IXP220-4.

## Key Features

- Read capability using the following (125 kHz) Impro Tags: Slim Tags (Read Only), Omega Tags (Read Only), WriTag 128 (Read/Write) and WriTag 2048 (Read/Write).
- Reads HID 125 kHz Tags.

**NOTE:** *HID is a registered trademark of HID Global Corporation (an ASSA ABLOY Group Brand).*

- A simple user interface, consisting of a single tone, 4-volume (including off) Buzzer, and a single Status LED. The Software may limit support of the Buzzer to a single volume.

## Reading Range (Tag)

Tag Type	Typical Range (Minimum) (mm)	Typical Range (Minimum) (in)
ISO Credit Card (Slim)	Up to 25	Up to 1
ISO Credit Card (Omega)	Up to 25	Up to 1
ISO Credit Card WriTag 128	Up to 25	Up to 1
ISO Credit Card WriTag 2048	Up to 25	Up to 1
HID 125 kHz Tag (Credit Card)	Up to 25	Up to 1

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**NOTE:** *Placing the ImproX ISR on a metallic surface will reduce the Tag reading range slightly.*

## ImproX (ISR)

### IXP220 USB Registration Reader (125 kHz)

ISR900-1-0-GB-XX

## Physical Specifications

Length	: 97 mm (3.81 in).
Width	: 61.40 mm (2.41 in).
Height	: 68.30 mm (2.68 in).
Approximate Weight	: 230 g (8.11 oz).
Housing Material	: Aluminium.
Colour	: Anodized, Natural.

## Environmental Specifications

Operating Temperature	: -25°C to +60°C (-13°F to +140°F).
Storage Temperature	: -40°C to +80°C (-40°F to +176°F).
Humidity Range	: 0 to 95% relative humidity at +40°C (+104°F) non-condensing.

### Approvals

CE Approval	: EN301 489-3, EN301 489-1 and EN300 330-1.
FCC Approval	: Approved.
Dust & Splash Resistance	: The Registration Reader is designed to work in an indoor environment similar to IP42. The Registration Reader is, therefore, not sealed against water.
Drop Endurance	: 2 m (6.56 ft) drop (in packaging).

## Electrical Specifications

### Power

Input Voltage	: 5 V DC Supplied from the USB Port.	
Power Requirements		
	Current (mA)	Power (W)
Maximum Current Drawn from the USB Port	: 100	0.5
Permissible Input Supply Ripple Voltage (Max)	: 0.2 V <sub>PP</sub> at 50 Hz.	

## Factory Defaults

### Beep Codes

Fails Power-on Self-test	: Continuous beep for 2 seconds.
Passes Power-on Self-test	: Two short beeps of 200 ms duration, separated by a 200 ms inter-beep pause.

## User Interfaces

### Buzzer

Volume & Tone	: Four volume, single tone (Software dependent).
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### LED Indicator

Status LED	: Single, bi-colour Red or Green LED.
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## Related Information

For extra information relating to this product refer to the:

- ImproX ISR Hardware Installation Manual (ISR302-0-0-GB-XX).

## Ordering Information

Order the ImproX (ISR) IXP220 USB Registration Reader using the following Part Number:

- ISR900-1-0-GB-XX: ImproX (ISR) IXP220 USB Registration Reader (125 kHz).

## Warranty Details

This product conforms to our Warranty details on [www.impro.net](http://www.impro.net).

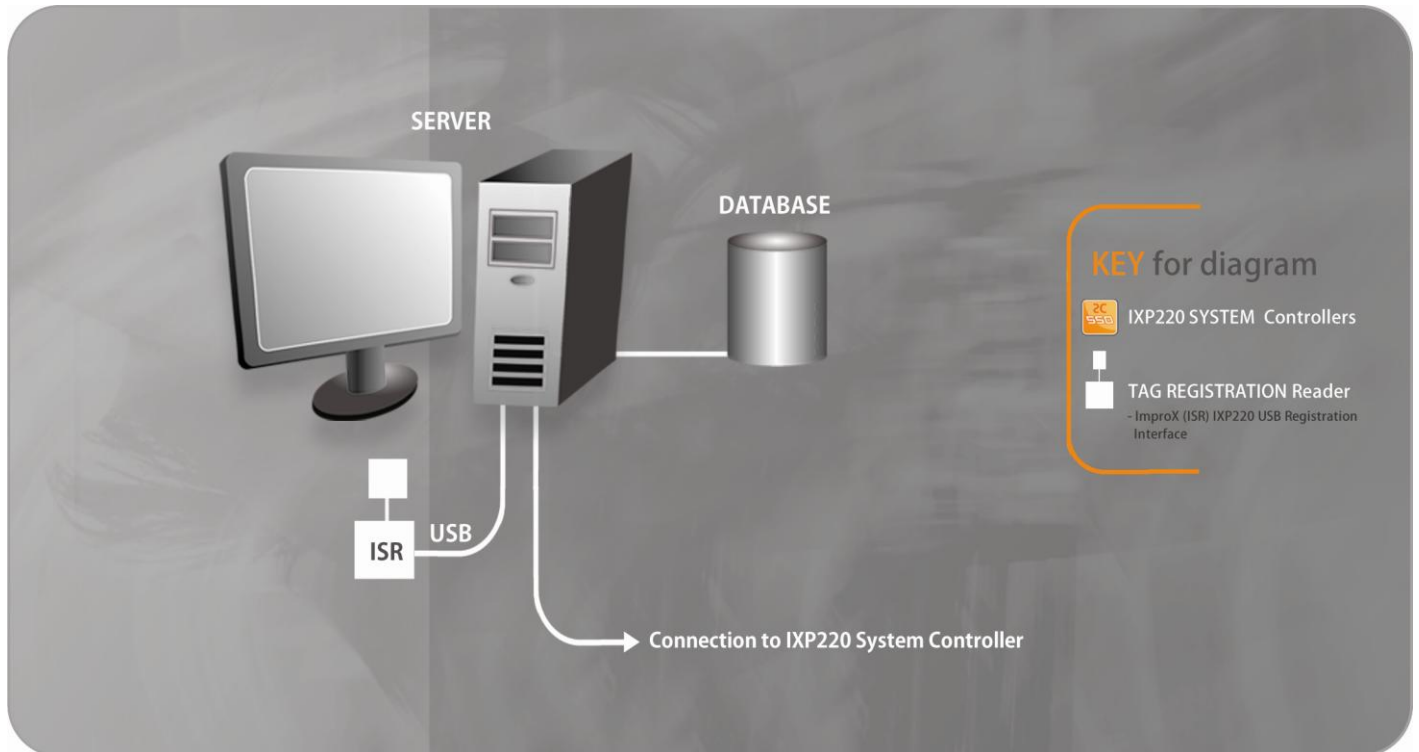


Figure 1: ImproX ISR Overview

This Product Specification Catalogue applies to the ImproX (ISR) IXP220 USB Registration Reader, ISR900-1-0-GB-00.  
(The last two digits of the Impro stock code point to the issue status of the document or product).

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