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.

New technology allows the Registration Reader to read both 125 kHz and 13.56 MHz frequency Tags.

The ImproX ISR includes a four volume, single tone Buzzer and a bi-coloured Red or Green Status LED. The functions of the Buzzer and Status LED are controlled internally.

Key Features

- Supports both 125 kHz and 13.56 MHz Tag types.
- CSN read capability from various Tag types: Slim Tags, Omega Tags, Impro Trinary Tags (1074 and 2074), Philips HITAG™ 1, Philips HITAG™ 2, HID Tags (H10301, H10302 and H10304), ISO 15693-2 iClass Tags, ISO 18092 FeliCa Tags and ISO 14443A MIFARE® 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.

ImproX (ISR)

IXP220 USB Registration Reader

ISR900-1-0-GB-XX

Reading Range (Tag)

Tag Type	Typical Range (mm)	Typical Range (in)
Slim Tags	Up to 25	Up to 1
Omega Tags	Up to 25	Up to 1
Impro Trinary Tags	10 to 25	0.4 to 1
Philips HITAG™1	Up to 25	Up to 1
Philips HITAG™ 2	Up to 25	Up to 1
HID 125 kHz Tags	Up to 25	Up to 1
HID iCLASS Tags	Up to 25	Up to 1
FeliCa Credit Card Tags	Up to 25	Up to 1
MIFARE® Credit Card Tags	Up to 25	Up to 1

NOTE: HID, FeliCa and MIFARE® are registered trademarks of HID Global Corporation (an ASSA ABLOY Group Brand), The Sony Corporation and Koninklijke Phillips Electronics N.V. respectively.

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

NOTE: When reading an Impro Trinary Tag, hold the Tag at least 10 mm (0.4 in) away from the ImproX ISR.

Physical Specifications

Length	:	97 mm (3.81 in).
Width	:	61.40 mm (2.41 in).
Height	:	68.30 mm (2.68 in).
Approximate Weight	:	204 g (7 oz).
Housing Material	:	Aluminium.
Colour	:	Anodized, Natural.

Environmental Specifications

Operating Temperature	:	0°C to +40°C (+32°F to +104°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 489-1 and EN301 489-3.
FCC Approval	:	Pending.
Dust & Splash Resistance	:	The Registration Reader is designed to work in an indoor environment similar to IP40. The Registration Reader is, therefore, not sealed against water.
Drop Endurance	:	2 m (6.56 ft) drop (in packaging).

impro technologies® ACCESS CONTROL

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	:	200	1.0
Permissible Input Supply Ripple Voltage (Max)	:	0.2 V_{PP} 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).

Status Indicator

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

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.

Warranty Details

This product conforms to our Warranty details on ***www.impro.net***.

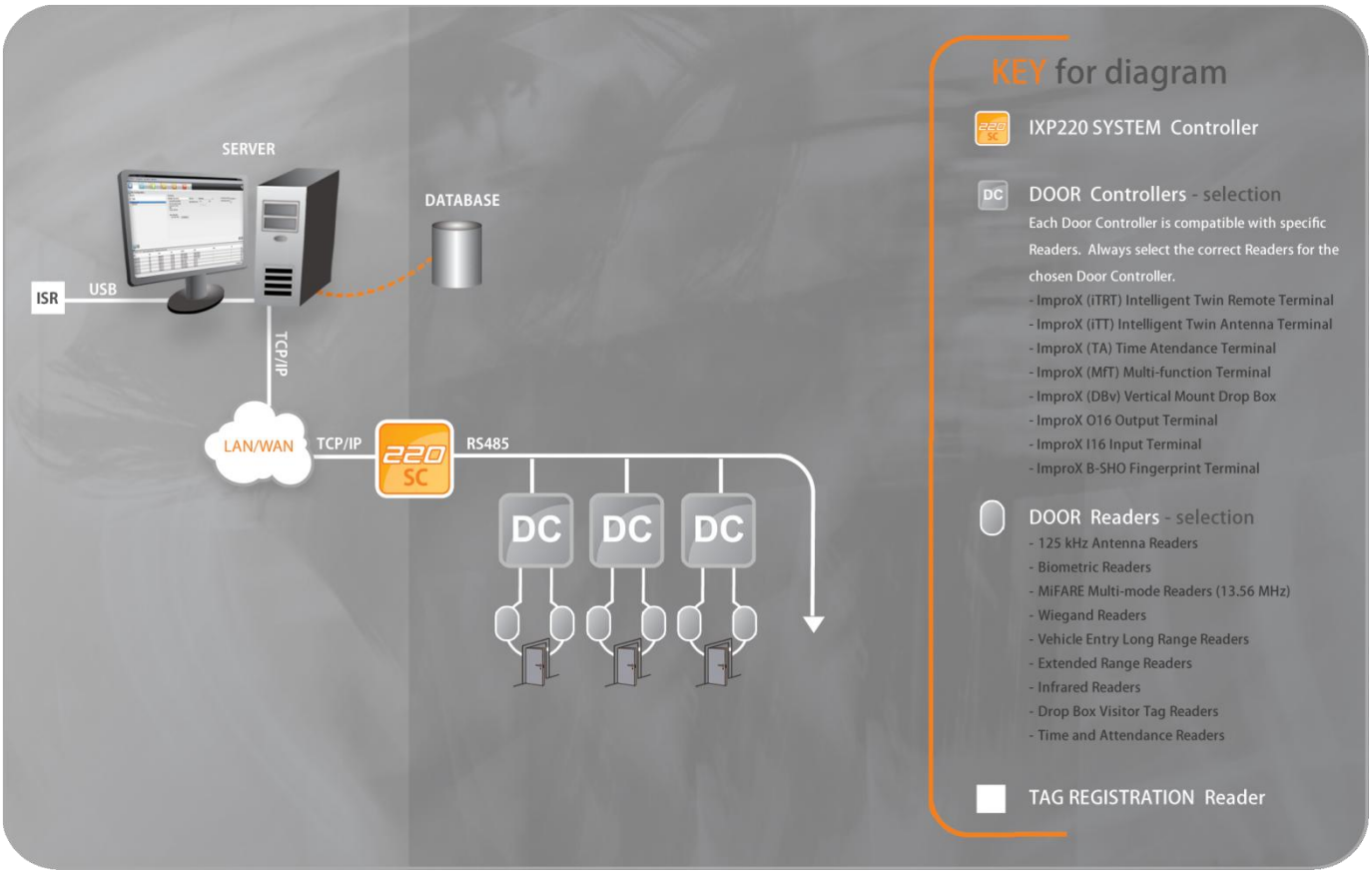

Figure 1: ImproX ISR Overview