



ImproX ISR

Product Specification Catalogue

The **ImproX (ISR) IXP220 Registration Interface** forms part of the IXP220 Access Control System and connects to the Host PC via USB.

The Registration Interface connects to various third-party Readers allowing you to enroll various third-party Tags. When using an IXP220 System with third-party Readers, the ImproX ISR acts as a Tag Registration Reader.

Key Features

- The Registration Interface has a simple user interface, consisting of four "Diagnostic Indicators" and one "Power Indicator" (Power LED).
- The Third-party Port can be used to connect to one of the following:
 - Mifare®.
 - RF Receiver.
 - Magstripe.
 - Barcode.
 - Wiegand.
 - Biometric Readers.
- Connects to other third-party devices (that is, connects to third-party devices that support Wiegand, TTL & Clock and Data outputs).
- Infrared registration. The Infrared Receiver is located in the extrusion of the ImproX ISR, alongside the USB Plug.
- In scenarios that require both standard 125 kHz Tags and third-party tags, connect an ImproX RRA and the required third-party Reader. Do this by connecting the ImproX RRA using the Antenna Port and the third-party Reader using the Third-party Port.

Physical Specifications

Length	: 84 mm (3.31 in).
Width	: 116 mm (4.57 in).
Height	: 54 mm (2.13 in).
Approximate Weight	: 229 g (8.09 oz) Excluding the USB Cable.
Cabinet Material	: Aluminium.
Colour	: Black

ImproX (ISR)

IXP220 Registration Interface

ISR901-1-0-GB-XX

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	: CISPR22, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6 and IEC61000-4-8.
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FCC Approval	: Approved.
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Dust & Splash Resistance	: The ImproX ISR is designed to work in an indoor (dry) environment similar to IP20. The ImproX ISR is, therefore, NOT sealed against water.
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Drop Endurance	: 2 m (6.56 ft) drop (in packaging).
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Electrical Specifications

Power

Input Voltage	: 5 V DC Supplied from the USB Port.
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Power Requirements	Current (mA)	Power (W)
Maximum Current Drawn from the USB Port by the ImproX ISR	: 200	: 1.0
Permissible Input Supply Ripple Voltage (Max)	: 0.2 V _{PP} at 50 Hz.	

Third-party Port

Electrical Interface	: 5 V DC ± 0.1 V is supplied to power the single Reader connected to this Port. A maximum of 100 mA can be supplied from this Port.
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Factory Defaults

Baud Rate	: 38 400.
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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

LED Indicators

Power LED	: Blue (steady) (externally visible).
USB Tx LED	: Red (flashing) (internally visible).
USB Rx LED	: Green (flashing) (internally visible).
RS485 Tx LED	: Red (flashing) (internally visible).
RS485 Rx LED	: Green (flashing) (internally visible).



ImproX RRA or RRM

Status LED	: Bi-colour, Red or Green LED.
Buzzer Volume and Tone	: Four volume, single tone (Software dependent).

Related Information

For extra information relating to this product refer to the:

- ImproX ISR Hardware Installation Manual (ISR305-0-0-GB-XX).

Ordering Information

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

- ISR901-1-0-GB-XX: ImproX (ISR) IXP220 Registration Interface.

NOTE: Please note that the ImproX (ISR) IXP220 Registration Reader does not ship with an ImproX RRA or ImproX RRM.

Warranty Details

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

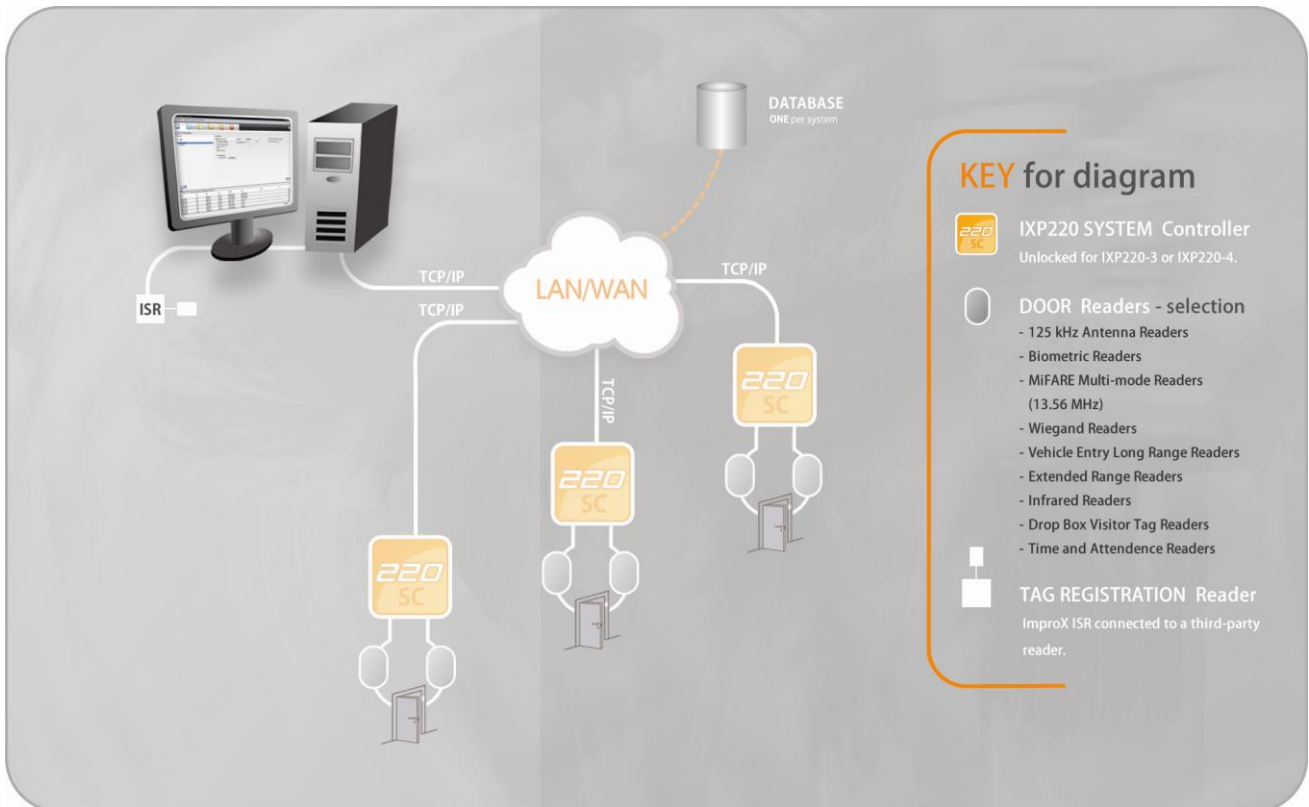


Figure 1: ImproX ISR System Overview

This Product Specification Catalogue applies to the ImproX (ISR) IXP220 Registration Interface, ISR901-1-0-GB-00.
(The last two digits of the Impro stock code point to the issue status of the document or product).

ISR355-0-0-GB-06

Issue 07

November 2009

ImproX ISR\Product Specification Catalogue\LATEST ISSUE\
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