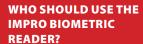# Impro biometric
READER

- **Secure:** detects the fingerprint is genuine and real

- **Quick:** fingerprint is matched in under one second

- **Technology:** incorporates Seos technology for unrivalled data and privacy protection, along with NFC and BLE

Biometrics for **real-world** performance

WHO SHOULD USE THE IMPRO BIOMETRIC READER?

Sites wanting the additional security and convenience of a biometric reader that simply works anytime, with anyone.

PRODUCT BENEFITS:

- Real-world performance with fingerprints that are wet, dirty, or worn

- Multispectral imaging captures surface and sub-surface fingerprints for unrivalled accuracy

- Future-proof with NFC and BLE for the adoption of virtual credentials and more

- Seamlessly integrates with Impro's Access Portal access control solution

Millions of people around the world enjoy the convenience of fingerprint technology to access their mobile phone, login to their computer or to access cash from an ATM.

Now you can enjoy the same convenience with the Impro biometric access control reader.

Patented technology

Our selected world-class sensor technology is patented for the innovative method of reading both surface and sub-surface fingerprints – resulting in unrivalled security and the ability to read fingerprints of the young and old, and everyone in between.

No faking it

Liveness detection protects against fake fingers and other spoofing methods.

Security

The reader has duress finger functionality built-in for added user protection. Further, should an

attempt be made to remove or damage the device, the optical tamper feature will send an automatic alert.

No more delays

Multiple attempts to read a fingerprint, and the associated delay at the door, are a thing of the past with the rapid and accurate reading of all fingerprints.

Mobile enabled

The inclusion of BLE and NFC provides the gateway for the use of virtual credentials, along with fingerprints for increased security.

Built for any environment

The sleek design hides a robust and hardy reader. Built-in vandal resistance and extreme weather protection makes the unit ideal for both indoor and outdoor applications.

Simple installation

Through our unique clipping mechanism, which has just one screw, the reader can be installed in minutes.

Specifications
IMPRO BIOMETRIC READER

Model name	Impro biometric reader
Part number(s)	HRB910 (1K) | HRB911 (5K) | HRB912 (RFID) | HRB913 (5K + RFID)
Product description	Fingerprint biometric & card reader
Colour	Black
Enclosure	
Dimensions (l-w-d)	20.4cm x 5.0cm x 5.5cm [8.03" x 1.97" x 2.17"]
Approximate product weight	308g [13.04oz]
Mounting	Mullion
Material	Black UL94 polycarbonate plastic
Electrical specifications	
Input voltage	12VDC, Polarity Sensitive
Max Current Draw	2A@12VDC
Power input protection	Reverse Polarity Protection Only
Connection type	Pigtail
Relay Contact (Dry Output)	1A @ 30VDC Max
Connectivity	
Ethernet	Base-T 10/100
RS-485	Supported
Wiegand/OSDP	Supported
I/O	Door position sensor Inputs, Relay connections, Request to Exit Inputs
User interfaces	
Buzzer	Single tone
LED	Tri-coloured status LED
Tamper	Optical tamper protection
Tag compatibility	Secure Identity Object™ (SIO) on iCLASS® Seos®, iCLASS SE®/SR | iCLASS® Access Control Application (standard iCLASS cards) ISO 14443A (MIFARE) CSN, ISO 14443B CSN | Secure Identity Object (SIO) on NFC-enabled devices using Host-Based Card Emulation, Template of Card with Seos | Mobile IDs (Bluetooth Smart)
Keypad	N/A
Biometric function	
Sensor type	Optical (multispectral imaging)
Template output format	1:1 ANSI 378 | 1:N Proprietary (ANSI378+ format)
Verify (1:1) match	ANSI 378 template
Identify (1:N) search	Proprietary template (ANSI 378+ format), Max. 5k users with unlock
Latent and liveness detection	Yes (multispectral imaging)
Database	1k users standard, 5k users with unlock
No. of templates per user	10 Max
No. of fingers on card	2 Max
Environmental specifications	
Operating temperature	-20°C to +55°C [-4°F to 131°F]
Storage temperature	-40°C to +80°C [-40°F to 176°F]
Operating humidity	0 to 80% relative humidity at 40°C (104°F) non-condensing
IP rating	IP66
IK rating	IK08
Certifications	
CE	✔
UL	On request
SABS	✔
RoHS	✔