



# 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

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