

# sensor

# Access Control & Biometric Solutions

## Product Guide 2018

International distributors of Bosch, Hikvision, Impro, LigoWave, Sagem and Viridi products



VIDEO SURVEILLANCE



WIRELESS SOLUTIONS



FIRE DETECTION



PUBLIC ADDRESS / EVAC SYSTEMS



ACCESS CONTROL



MANAGEMENT SYSTEMS

Gauteng • Western Cape • Eastern Cape • KwaZulu-Natal



## Impro Access Portal Software

Works with all Impro Access Portal Hardware.



### Access Portal LITE (Free)

**Entry-level for monitoring and controlling residential and small & medium commercial sites**

- Embedded on Impro Cluster Controller modules (CCM)
- Browser based user interface
- 8 Doors full anti-pass back (16 readers)
- 1 000 Tag holders
- Access Portal & Legacy iTT / iTRT (RS485) hardware



### Access Portal BASIC (Free)

**Elementary access control monitoring. Simple to work with, yet flexible & expandable**

- Customisable: Configurable for your unique needs
- Software & browser UI
- 100 Doors single site
- 1 000 Tag holders
- Seamless biometric integration
- Access Portal & legacy iTT/iTRT hardware



### Access Portal PRO

**Sophisticated Access Control and T&A monitoring. Simple to work with, yet flexible & expandable**

- Software & browser UI
- 25 Sites; 100 Doors per site
- 5 000 / 125 000 Tag holders
- Seamless biometric integration
- Visitor & vehicle enrolment
- Comprehensive & customisable reporting
- Directory configuration (LDAP)



### Access Portal ENTERPRISE

**Enterprise Application Access Control and T&A monitoring**

- Software & browser UI
- 1 000 Sites
- 500 Doors per site
- 1 Million tag holders
- Network status trends report
- Hardware installation report



## Enrolment Devices



### HRN980-5-0-GB

**Impro Access Portal Desk mounted card & tag registration reader**

- USB
- 125kHz RFID cards
- 13.56MHz Mifare



### MRB929-0-0-GB

**MorphoSmart 300 USB enrolment reader with VERIF**

- Desktop biometric fingerprint enrolment
- Integrated Mifare (13.56MHz) card enrolment option MS0350
- Requires VERIF license for Impro only



impro technologies®  
ACCESS CONTROL



## Impro Access Portal Hardware – Wiegand Modules

Suitable for Impro Multi-Discipline readers (MDR), Impro Wiegand readers or 3rd party Wiegand readers (Morpho). Wiegand readers can be installed up to 150m from the 2 reader module.



### HCW930-0-0-GB System Cluster Controller (CCM) in IPS Box with One 2 Wiegand Reader Module

- IP link to system software
- CCM fits up to four 2 reader modules in IPS (3 additional)
- CCM can manage up to four additional remote (S-Bus) 2 reader modules
- 5A switched mode power supply and 7AH battery space
- CCM also available with LCD screen & enrolment for stand-alone AP LITE HCW935-0-0-GB



### HMW901-0-0-GB Impro 2 Wiegand Reader Module (PCB) for IPS Box

- Fit up to three additional 2 reader modules in single IPS
- Manage two Impro Multi-Discipline Readers (MDR) or 3rd party readers (Morpho)
- 2 Relay / 4 digital inputs
- Full Anti Pass-Back (APB) control of one door, or single entry control of two doors



### HCW910-0-0-GB System Cluster Controller (CCM) in Plastic Housing with One 2 Wiegand Reader Module

- IP link to system software
- Cluster Module – Cluster up to eight 2 Reader Modules
- CCM can manage up to four remote (S-Bus) 2 Reader Modules
- External 12VDC PSU required
- CCM also available with LCD screen & enrolment for stand-alone AP LITE HCW915-0-0-GB



### HMW900-0-0-GB Impro 2 Wiegand Reader Module in Plastic Housing

- Up to eight 2 reader modules clustered to CCM
- Manage two Impro Multi-Discipline Readers (MDR) or 3rd party readers (Morpho)
- 2 Relay / 4 Digital Inputs
- Full Anti Pass-Back (APB) control of one door or single entry control of two doors



## Impro Multi-discipline & Wiegand Readers



### HRW900-5-0-GB Multi-discipline Reader (MDR)

- RFID 125kHz or Mifare 13.56MHz
- Stainless steel cover potted enclosure
- Terminal block
- Tri-coloured LED
- Adjustable buzzer
- L97xW45xH21mm



### HRW901-5-0-GB Multi-discipline Keypad Mullion Reader (MDK)

- RFID 125kHz or Mifare 13.56MHz
- Stainless steel cover potted enclosure
- Terminal block
- 12-digit keypad
- Tri-coloured LED
- Adjustable buzzer
- L97xW45xH21mm



### HRW920-1-0-GB Wiegand Metal Reader (MHR) – 125KHZ

- Zinc alloy die-cast potted enclosure
- Terminal block
- Bi-coloured Red / Green LED
- Adjustable buzzer
- L75xW72xH27mm



### HRK920-1-0-GB Wiegand Keypad Metal Reader (KHR) – 125KHZ

- Zinc alloy die-cast potted enclosure
- Terminal block
- Metal keypad
- Bi-coloured Red / Green LED
- Adjustable buzzer
- L142xW76xH27mm



### HRT900-5-0-GB Multi-discipline Time & Attendance Card Reader (MDTA)

- RFID 125kHz & Mifare 13.56MHz
- Real-time clock
- RS485 only
- 12-digit keypad
- TFT-LCD colour display
- Adjustable buzzer
- No relay / no digital inputs
- HSP920 for door control



### HRB900-5-0-GB RS485 HRB901-5-0-GB TCP/IP Multi-discipline Time & Attendance Card & Fingerprint Reader (BMTA)

- RFID 125kHz & Mifare 13.56MHz
- Real-time clock
- 12-digit keypad
- TFT-LCD colour display
- Adjustable buzzer
- No relay / no digital inputs
- HSP920 for door control



## Idemia Morpho Access Biometric Fingerprint Readers

Integrated seamlessly with Impro Access Portal Wiegand Reader Modules or can run on their own with MorphoManager software Live & Fake Finger detection and duress (third finger) is now standard on MA Sigma devices.



### Sigma Lite Series

#### Morpho Slim and Powerful Fingerprint Access Terminals

- 500 users (3K / 10K expandable)
- Mifare / iClass / RFID / NFC readers optional
- 2.8" QVGA colour Touchscreen option (Lite+)
- Time & Attendance features
- IP65 & IK08
- Door relay for stand-alone operation
- Two inputs PBT / DOS



### Sigma Series

#### Access Control and Time & Attendance Fingerprint Station

- 3 000 users (10K / 50K / 100K expandable)
- Mifare / iClass / RFID / NFC readers optional
- 5" WVGA colour touch-screen
- Time & Attendance features
- Tablet-like user experience
- Videophone function
- IP65
- Door relay for stand-alone operation
- Two inputs PBT / DOS
- SIA best in Biometrics ID & Credentialing



### Sigma Extreme

#### Access & Time fingerprint terminal for harsh operating conditions

- 3 000 users (10K / 50K / 100K expandable)
- Mifare card Std (iClass / RFID / NFC optional)
- 5" WVGA colour touch-screen
- 3.8mm tempered glass
- Time & Attendance features
- Tablet-like user experience
- Videophone function
- Powerful loudspeaker & mic
- IP65 & IK09
- FBI PIV IQS certified



## Impro Cards, Tags & Tokens



TOC912-1-0-NN  
TOC901-1-0-NN  
TMC912-4-0-NN

#### ISO white credit card access cards

- Slotted / unslotted
- Print quality
- 86 x 54 x 0.75mm
- Various card formats:
- RFID 125khz
- Mifare 13.56mhz
- Dual frequency (RFID & Mifare)



TKR900-1-0-NN

#### Impro rectangular keyring tag

- RFID 125khz
- 12 month guarantee
- ABS plastic shell
- Dark grey
- Robust metal keyring connector



TKX900-1-0-NN

#### Impro keyring tag

- RFID 125khz
- 12 month guarantee
- ABS plastic shell
- Medium grey colour



TLR900-1-0-NN

#### Impro semi-slim long range ISO card

- RFID 125khz
- Increased read range
- 12 month guarantee
- 54 x 86 x 1.8mm
- ABS shell with polycarbonate label
- Off white colour



TCL902-0-0-NN

#### Crocodile clip

- Suitable for use with credit card type cards and tags
- Metal fastening clip



TCL901-0-0-NN

#### ID card clear lens

- Cover fits ISO credit card and semi slim tags
- Clear plastic colour
- Includes portrait and landscape slots

Various cards, tags, key fobs and accessories available on request



## Accessories - Door Hardware to Complete the Solution



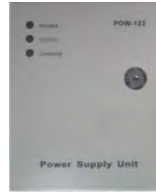
### YLIM-280LED YLI 280 kg Electromagnetic Lock

- Monitored
- Status LED
- 12VDC
- ZL mounting bracket optional



### YLIM-180S YLI 180 Kg Electromagnetic Lock

- Monitored
- 12VDC
- ZL mounting bracket optional



### POW-122 Nova PSU 12VDC 3A power pack

- Lockable metal enclosure
- 3 Amp 12 VDC
- Switch mode
- 7AH battery compartment
- NRCS Certificate



### ELV 12VPSU Linear PSU 12VDC 3.2A power Pack

- ABS enclosure
- 3.2 Amp 12 VDC
- 7Ah Battery backup compartment
- EN & SANSIEC certification



### TS-77 Dorma Door Closer

- 70 Kg medium duty
- 1000mm
- Swing Arm mechanism



### YLI-YC81-2 YLI Door Closer

- 45 Kg medium duty
- 800mm
- Swing Arm mechanism



### QS920 Qs Door Closer

- 80 Kg Heavy Duty
- 1000mm
- Slide Arm mechanism



### YLI ABK-800A YLI Push Button

- Surface Mount
- Aluminium
- NO / NC
- Add a mounting box
- YLI MBB-800A-M



### YLICPK-861-A YLI Green Break Glass (MCP)

- Single Contact
- Resettable key
- Includes Perspex cover



### GI-CP32-G YLI Green Break Glass (MCP)

- Double Contact
- Resettable key
- Includes Perspex cover
- No moving parts



### ISK-840A YLI Standard No Touch Button

- Rectangle
- Not adjustable
- 12VDC



### ISK-841A YLI Advanced No Touch Button

- Rectangle
- Timer & range adjustable
- 12VDC



### YMC-203 Recessed Door Contact

- 19mm
- NC
- White or brown



### KB05 Key Box Override

- Complete with housing
- Spring loaded or On / Off versions



### SPE107 Linear Buzzer

- 12 VDC
- With leads



### STROBE Strobe Light

- Red
- 12 VDC





## Impro Access Portal Special Application Items



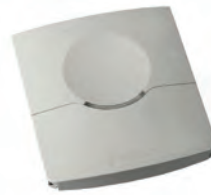
### TRK900-1-1-GB – Transmitter HRR900-0-1-GB – Receiver Compact 4-Channel 433.92MHz RF Receiver & Remotes for Long Range Access Control

- Vehicular traffic or domestic garage door or gate control
- Works with
  - Access Portal Wiegand Reader Module
  - IXP Range iTRT
- Suitable for outdoor installation
- Diagnostic RSSI (Received Signal Strength Indicator) LEDs for trouble shooting



### 3102-06-NUA00-00 NEDAP uPASS Hands Free Access Reader

- Operates up to 2 metres
- Ideal for personnel identification
- Passive UHF cards (EPC GEN 2)
- Supports combi card technology
- Dimensions of standard access control reader 150 x 50 x 40 mm
- Works with
  - Access Portal Wiegand Reader Module
  - IXP Range iTRT
- 3 colour LED and beeper indication



### 3101-06-NUR00-00 NEDAP uREACH Long Range UHF Reader

- Operates up to 5 metres
- Ideal for vehicle identification
- Passive UHF cards (EPC GEN 2)
- Supports combi card technology
- On-site adjustable reading
- Works with
  - Access Portal Wiegand Reader Module
  - IXP Range iTRT
- 3 colour LED and beeper indication



### DS-2CD4A26FWD-IZS/P-WG Hikvision ANPR camera with Wiegand output

- 2.8-12mm (15m)
- 8-32mm (15m+)
- LNPR edge storage
- On-board Digital I/O
- Works with Access Portal Wiegand Reader Module



### HRD901-5-0-GB Impro Visitor Tag Retention Reader

- full height stainless steel powder coated white housing
- Includes 2 relays and 4 digital inputs
- Requires 12VDC power
- Available as internal mechanism only
- HRD900-5-0-GB



### YLI YK-568L Stainless Steel Weatherproof RFID Keypad Reader for Basic Applications

- Stand-alone
- 500 user
- PIN
- 125KHz card
- 12 VDC



### AHL903 Aperio wireless locks by ASSA ABLOY

- Seamless integration to Access Portal
- Quick and easy to install
- Secure encryption
- IP and RS485 hub
- Long range 25m to hub
- Diagnostics & status indication on lock
- No Impro license required
- Full range integrated and available on request



## Impro Access Portal Visitor Management and Mobile Registration



### HPV900-0-0-GB Online Web Based Mobile Visitor Management Solution

- Can be immediately deployed
- Accessed through any web enabled device
- Does away with the unreliable and inaccurate paper based systems
- Visitor pre-registration 24/7
- Internet cloud storage
- Visitor receives an automated email / SMS notification With single use access code
- Notification automatically integrates into their calendar for convenience
- Integrates seamlessly into Impro Access Portal for rules setup & reporting



### HPV900-0-0-GB Visitor Book handheld scanner

- Honeywell Dolphin CT50
- Scans ID, drivers license, vehicle license disk





## Impro Legacy IXP range

Impro legacy IXP range is still available



### IXP400 / ImproNet

**Impro's Unrivalled supervision, ptimised proficiency flagship access control system**

- 300 000 tag holders
- 256 sites
- 3 000 doors



### IXP220

**Simplistic scalability**

- 10 000 tag holders
- 1 000 sites
- 256 doors



### IXP20

**Access control at your fingertips**

- 1 000 tag holders
- 1 site
- 8 doors



### XRT920-1-0-GB – Plastic housing

### IPS921-0-0-GB – IPS housing

**Impro legacy Intelligent Twin Reader Terminal (iTRT) door controller**

- Two Wiegand reader ports
- TCP/IP or RS485
- Compatible to legacy IXP and NEW Access Portal ranges



### Impro legacy card readers

**Impro legacy card readers have stood the test of time**

- Wiegand readers
- Multi discipline readers
- Antenna readers
- Compatible to legacy IXP and NEW Access Portal ranges

All Impro hardware comes with 3-year standard Warranty (Extendable to 5-years with Impro on-site installation sign-off).

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