



# Seos multi-discipline READER

- **Cost effective:** enterprise features without the associated cost
- **Footprint:** mullion footprint, ideal for new or retrofit sites
- **Credentials:** compatible with HID Mobile Access and Seos
- Now equipped with Seos secure technology

**Security** and **convenience** in one package

## WHO SHOULD USE THE SEOS MULTI-DISCIPLINE READER RANGE?

Ideal for organisations wanting enhanced security, coupled with the convenience of mobile credentials.

## PRODUCT BENEFITS:

- Supports HID Seos, iClass, among others
- Option of either Wiegand or OSDP protocols
- Communication distance of up to 1,000m (OSDP)
- Compatible with third party systems
- Suitable for indoor and outdoor applications

The Seos multi-discipline reader (MDR-SE) range offers a wealth of technology in a small mullion footprint.

A unique feature of the reader is the ability to read both 125kHz and 13.56MHz credentials, along with HID Global's high security Seos credentials.

The reader is available in two variants, being OSDP (the global IEC open standard) or the older Wiegand protocol.

The OSDP version provides cost and installation efficiencies due to the use of two-wire cabling, as well as the ability to run cables up to 1,000m from the controller. The Wiegand variant can operate up to a 150m wiring distance.

Another benefit of the OSDP variant is bidirectional communication, which allows for infield configuration through Access Portal software, as well as constant monitoring of the reader state.



Both variants are suitable for outdoor use with an IP54 rating and the connection is via a terminal block, for simplified installation.

The readers provide peace of mind security through an AES128-bit encryption between the reader and controller/module. - either through the open OSDP protocol, or Impro's proprietary Wiegand standard.

The MDR-SE range comes standard with a tri-coloured LED and buzzer, which can be controlled to suit the specific needs of your application.

Readers are compatible with Access Portal software, from version 4.4 upwards.

# Specifications

## SEOS MULTI-DISCIPLINE READER

| Model name                   | MDR-SE Wiegand                                                                                                                      | MDR-SE OSDP |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Part number(s)               | HRW910                                                                                                                              | HRW911      |
| Product description          | Secure Multi-discipline reader                                                                                                      |             |
| Colour                       | Silver and black                                                                                                                    |             |
| Dimensions (d-w-h)           | 9.7cm x 4.5cm x 2.1cm [3.8" x 1.8" x 0.8"]                                                                                          |             |
| Approximate product weight   | 61.5g [2.2 oz]                                                                                                                      |             |
| Material                     | Metallized silver and black ABS plastic                                                                                             |             |
| Electrical specifications    |                                                                                                                                     |             |
| Input voltage                | 8 - 14 VDC, polarity sensitive                                                                                                      |             |
| Power requirements at 12VDC  | 200 mA current, 2.4 W power                                                                                                         |             |
| Power input protection       | Reverse polarity and over-current protection                                                                                        |             |
| Connection type              | Terminal block                                                                                                                      |             |
| Connection medium            | Standard Wiegand, Impro proprietary                                                                                                 | OSDP        |
| User interfaces              |                                                                                                                                     |             |
| Buzzer                       | Single tone                                                                                                                         |             |
| LED                          | Tri-coloured status LED                                                                                                             |             |
| Tamper                       | Optical tamper protection                                                                                                           |             |
| Credential compatibility     | PACS read capability on NFC, HID Seos and HID iClass   H10301, H10302 and H10304 CSN read capability on MIFARE and DESFire   125kHz |             |
| Keypad                       | None                                                                                                                                |             |
| Environmental specifications |                                                                                                                                     |             |
| Operating temperature        | -25° to +60° C [-13° to +140° F]                                                                                                    |             |
| Storage temperature          | -40° to +80° C [-40° to +176° F]                                                                                                    |             |
| Operating humidity           | 0 to 95% relative humidity non-condensing (at +40° C / +104° F)                                                                     |             |
| Environmental rating         | IP54                                                                                                                                |             |
| RFID specifications          |                                                                                                                                     |             |
| Type                         | RFID                                                                                                                                |             |
| Frequency                    | 125kHz & 13.56MHz                                                                                                                   |             |
| Range (RFID)                 | 15 to 50mm / 0,6" to 2"                                                                                                             |             |
| Range (BLE)                  | 10m / 10.9 yd                                                                                                                       |             |
| Certifications               |                                                                                                                                     |             |
| CE (EU)                      | Pending                                                                                                                             |             |
| UL                           | On request                                                                                                                          |             |
| SABS (RSA)                   | Pending                                                                                                                             |             |
| RoHS                         | Pending                                                                                                                             |             |



**Impro Technologies**  
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in the access control industry

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