



# Multi-discipline READER

- **Versatile:** variants for indoor and outdoor use
- **Footprint:** mullion footprint, ideal for new or retrofit sites
- **Tag variety:** compatible with 125kHz and 13.56MHz credentials
- **Interoperability:** integrated with variety of Impro solutions

## Compact and robust RFID reader

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

The range is ideal for most applications, whether new installations or retrofit.

### PRODUCT BENEFITS:

- Compact footprint
- Sleek aesthetics
- Mark-resistant brushed stainless steel
- Tamper protection
- Communication distance of 150m (164yd)
- Compatible with third party systems
- Indoor and outdoor variants

The multi-discipline reader range offers both keypad and non-keypad options, with the ability to read both 125kHz and 13.56MHz credentials. This allows you to upgrade your equipment without having to replace existing credentials.

The sleek design and compact footprint makes it ideal for a variety of applications, and the reader range includes both indoor and outdoor options.

Further, the readers incorporate mark-resistant brushed stainless steel, which has the added benefit of ensuring a long product life.

All of the readers provide peace of mind security through an AES128-bit encryption between the reader and controller/module.



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

The readers are available in either terminal block or pigtail variants. The terminal block provides for quick and easy installation, whilst the pigtail variants have enhanced robustness with an IP65 rating against ingress of dust and water.

All readers are compatible with all Impro solutions, as well as third-party Wiegand based systems.

# Specifications

## MULTI-DISCIPLINE READER

Model name	MDR+	MDK+	MDR	MDK
<b>Part number(s)</b>	HRW902	HRW903	HRW900	HRW901
<b>Product description</b>	Multi-discipline reader for outdoor use	Multi-discipline keypad reader for outdoor use	Multi-discipline reader	Multi-discipline keypad reader
<b>Colour</b>	Black with steel faceplate			
<b>Dimensions (d-w-h)</b>	9.7cm x 4.5cm x 2.1cm [3.8" x 1.8" x 0.8"]			
<b>Approximate product weight</b>	208 g [7.33 oz]	204 g [7.19 oz]	75 g [2.64 oz]	77 g [2.71 oz]
<b>Material</b>	Black ABS plastic with brushed stainless steel faceplate			
Electrical specifications				
<b>Input voltage</b>	8 - 14 VDC, polarity sensitive			
<b>Power requirements at 12 VDC</b>	100 mA current, 1.2 W power			
<b>Power input protection</b>	Reverse polarity and over-current protection			
<b>Connection type</b>	1.5m Pigtail	1.5m Pigtail	Terminal block	Terminal block
User interfaces				
<b>Buzzer</b>	Single tone			
<b>LED</b>	Tri-coloured status LED			
<b>Tamper</b>	Optical tamper protection			
<b>Credential compatibility</b>	Mifare   iClass   HID H1021, H10302 and H10304   HiTag Impro 125kHz and 13.56MHz slim tag, omega tag, quad transmitter			
<b>Keypad</b>	N/A	12 digit keypad for PIN	N/A	12 digit keypad for PIN
Environmental specifications				
<b>Operating temperature</b>	-25° to +60° C [-13° to +140° F]			
<b>Storage temperature</b>	-40° to +80° C [-40° to +176° F]			
<b>Operating humidity</b>	0 to 95% relative humidity non-condensing (at +40° C / +104° F)			
<b>Environmental rating</b>	IP65	IP65	IP54	IP54
Certifications				
<b>CE (EU)</b>	✓			
<b>UL</b>	on request			
<b>SABS (RSA)</b>	✓			
<b>RoHS</b>	✓			



**Impro Technologies**  
has over 30 years' experience  
in the access control industry

HQ tel: +27 (31) 717 0700  
Email: [info@impro.net](mailto:info@impro.net)  
Web: [www.impro.net](http://www.impro.net)