



Wiegand reader MODULE

- **Control:** manage entrances such as gates, turnstiles and doors
- **Integration:** uses the globally accepted Wiegand protocol
- **Biometrics:** supports a variety of biometrics and long range readers

2 reader ports | 2 relays | 4 digital inputs

WHO SHOULD USE THE WIEGAND READER MODULE?

Ideal for all premises whether large or small, looking for a high-tech access control solution that is seamlessly scalable.

PRODUCT BENEFITS:

- Supports a variety of reader types, including biometric devices
- Built-in anti-tamper switch
- End of line sensing for enhanced security
- Plug-and-play simplicity
- Installation can be up to 150m from the controller
- Eight diagnostic LEDs

The Wiegand reader module is a door controller module, which seamlessly operates with the range of Impro controllers.

Reader types

The reader module supports most readers conforming to the Wiegand standard, such as Seos, multi-discipline, biometric, long range readers, UHF transceivers and more.

Expandable and flexible

Up to eight reader modules can be connected to one cluster controller, to control 16 doors – we call it clustering – and it means significant cost savings on larger sites, as you only need one controller.

The Wiegand reader module can also be combined with other modules, such as the IO8 module, for unrivalled site flexibility.

Security

The module comes standard with end of line sensing and tamper protection.

If the unit is tampered with, or cables broken, an alert is automatically sent to the system for further investigation.

In addition, the communication between the controller and reader module is encrypted for added protection.

Plug-and-play with zero downtime

The reader module brings true plug-and-play simplicity to an installation. To add more modules, simply clip them in. Replacing a unit? Unplug and plug in the new unit. All the wiring and communication is taken care of through the pioneering clip mechanism, and it means zero downtime for your access control system.

Backward compatibility

The reader module provides backward compatibility to selected older Impro hardware, to enable a simple migration path to new technologies, without the traditional rip-and-replace requirement.



Specifications

WIEGAND READER MODULE

Model name	Wiegand reader module		Wiegand reader module IPS
Product description	Wiegand reader module in plastic housing		Wiegand reader module for IPS box
Part number	HMW900		HMW901
Colour	Black		Black
Dimensions (d-w-h)	18.6cm x 9.9cm x 5.7cm [7.3" x 3.9" x 2.3"]		6.5cm x 15.5cm x 1.2cm [2.5" x 6.1" x 0.47"]
Approximate product weight	280g [9.9 oz]		274g [9.6oz]
Material	ABS		ABS
Electrical specifications			
Input voltage	12 VDC nominal, 15 VDC max, polarity sensitive		
Power requirements at 12 VDC relays off	37 mA current 0.44 W power		
Relay power requirements at 12 VDC	An additional ~0.4 W per relay used		
Power input protection	Reverse polarity and over-current protection transient voltage protection		
Wiegand port specifications			
	Minimum	Typical	Maximum
Pulse width range	21uS	42uS	8mS
Pulse interval minimum	100uS	200uS	8mS
Pulse interval maximum	8mS	9mS	17mS
Input specifications			
Digital inputs	Four		
Input type	2 dry contact inputs with end-of-line (EOL) sensing and 2 dry contact inputs without end-of-line (EOL) sensing		
Output specifications			
Number of relay outputs	Two		
Output type	Relay output: 2x independent, single-pole, double-throw (SPDT) dry contact relays		
Relay contacts	NO • COM • NC		
Contact ratings	10 A at 28 V DC 5 A at 220 V AC 12 A at 120 V AC 100,000 operations minimum		
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	IP20	IP20 in closed IPS box	
Certifications			
CE (EU)	✓		
RoHS	✓		
SABS (RSA)	✓		



Impro Technologies
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in the access control industry

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