



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



Ideal for all premises whether large or small, looking for a hightech 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 plugand-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]	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	Турі	ical	Maximum	
Pulse width range	21uS	420	uS	8mS	
Pulse interval minimum	100uS	200uS		8mS	
Pulse interval maximum	8mS	9m	٦S	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				
		12 A at 1	20 V AC		
		12 A at 1 100,000 operat	20 V AC ions minimum		
		12 A at 1 100,000 operat Environmental	20 V AC ions minimum specifications		
Operating temperature		12 A at 1 100,000 operat Environmental -25° to +60° C	20 V AC ions minimum specifications [-13° to +140° F]		
Operating temperature Storage temperature		12 A at 1 100,000 operat Environmental -25° to +60° C [-40° to +80° C]	20 V AC ions minimum specifications [-13° to +140° F] [-40° to +176° F]		
Operating temperature Storage temperature Operating humidity	0 to 95% re	12 A at 1 100,000 operat Environmental -25° to +60° C [-40° to +80° C] lative humidity non-co	20 V AC ions minimum specifications [-13° to +140° F] [-40° to +176° F] condensing (at +40° (
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