



Antenna reader MODULE

- **Cost effective:** connects with Impro's economical range of readers
- **Compatibility:** integrated with wide variety of Impro controllers
- **Simplicity:** plug and play modular design

2 reader ports | 2 relays | 4 digital inputs

WHO SHOULD USE THE ANTENNA READER MODULE?

Small to large installations that are looking for a cost-effective access control solution, without compromising on quality and features.

PRODUCT BENEFITS:

- Supports range of readers, to suit most installation needs
- Operates with 125kHz credentials
- End of line sensing for enhanced security
- Installation up to 20 metres from the controller
- Built-in anti-tamper switch
- 8 diagnostic LEDs

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

Reader types

The reader module supports Impro's 125kHz Antenna range of readers. The range includes a variety of indoor and outdoor readers, with or without keypad, and readers for hardy environments.

Security

All reader modules come standard with tamper protection and end of line sensing. Should cables be cut, or a unit opened, an alert is automatically sent to the system. In addition, the communication between the controller and reader module is encrypted for added protection.

Expandable and flexible

Up to eight Antenna reader modules can be connected to one cluster controller.

This enables one controller to be used for up to 16 doors – a highly cost effective installation method that we call 'clustering'.

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

Installation simplicity

The reader module brings true plug and play simplicity to an installation. The unit quickly and easily clips into the controller, or other modules, depending on your site configuration. The wiring and communication is taken care of through the innovative clip mechanism, and results in zero downtime.

Backward compatibility

The reader module provides backward compatibility to selected older Impro technologies, for a simpler upgrade path than the traditional rip-and-replace requirement.



Specifications

ANTENNA READER MODULE

Model name	Antenna reader module	Antenna reader module IPS
Product description	Antenna reader module in plastic housing	Antenna reader module for IPS box
Part number	HML900	HML901
Colour	Black	N/A
Dimensions (d-w-h)	18.6cm x 9.9cm x 5.7cm 7.3" x 3.9" x 2.3"	8.2cm x 38cm x 31cm 7.3" x 15" x 12.2"
Approximate product weight	266 g (9.4 oz)	N/A
Material	ABS	ABS
Electrical specifications		
Input voltage	12 VDC nominal, 15 VDC max, polarity sensitive	
Power requirements at 12 VDC with no antennas attached and relays off	50 mA current 0.6 W power	
Power requirements at 12 VDC with antennas attached and relays off	200 mA current 2.4 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	
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)	✓	
SABS (RSA)	✓	
RoHS	✓	



Impro Technologies
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in the access control industry

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