



# Access Portal S-SERIES

- **Cost effective:** one of the most price competitive systems
- **Secure:** uses trusted anti-cloning tag technology
- **Scalable:** simple plug-and-play for seamless expansion
- **Flexible:** increased cable distance and ability to multi-drop



## WHO SHOULD USE THE S-SERIES?

All installations, big or small, looking for:

- Improved security
- Reduced costs
- Low-maintenance
- Controlled access
- Remote management
- Reliability and convenience

## PRODUCT BENEFITS:

- Up to eight SIR readers or four APB doors per module
- Reduced cabling and installation costs
- Enhanced security with anti-cloning tags
- Available in plastic housing or metal enclosure

The Access Portal S-Series comprises cost-effective hardware that seamlessly operates on Impro Technologies' Access Portal management software, to provide a holistic access control system.

A key feature of the S-Series is the ability to operate up to eight SIR readers or four APB doors from a single module.

The clustering concept also ensures zero downtime, as modules are plug-and-play – simply unplug and replace. Expansion of a system is just as easy, whereby additional controllers and modules are quickly and effortlessly added as needed.

The system caters for redundancy as transactions reside in the controller, as well as the server. Should a connection to the server be lost, or compromised, there is no catastrophic failure or security breach, as the controller continues to interdependently operate and, once back online, seamlessly uploads transactions to the server.

Installation time and cost is improved through the use of three-core cable, and the system supports a variety of installation topologies such as star, tree, daisy-chain and multi-drop for unrivalled flexibility.

Another installation benefit is the ability for the reader to be installed up to 150m from the module.

The S-Series uses 125kHz RFID secure technology that protects against tag cloning to prevent unauthorised users from accessing the premises, as well as encrypted communication between the controller and module for added security.

The solution is ideal for small to large installations, due to the option of a touchscreen LCD controller with embedded software which doesn't require a PC, or server-based system.

The S-Series operates seamlessly with the full range of Access Portal software.

# Specifications

## S-SERIES

Model Name	S4 module (plastic)	S4 module (IPS)	Clustered	SIR reader
<b>Part number(s)</b>	HMS900-0-0-GB	HMS901-0-0-GB	<b>IPS:</b> HCS930 no LCD, one module HCS931 no LCD, two modules HCS935 LCD, one module HCS936 LCD, two modules <b>Plastic:</b> HCS910 no LCD, one module HCS911 no LCD, two modules HCS915 LCD, one module HCS916 LCD, two modules	SIR900-1-0-GB
<b>Product description</b>	Single S4 module in plastic housing	Single S4 module for use in IPS housing	Cluster controller with S4 module(s)	Non-keypad RFID SIR mullion reader
<b>Colour</b>	Black			Two-tone grey
<b>Keypad</b>	N/A		Optional: touchscreen LCD	No
<b>Dimensions (d-w-h)</b>	18.6cm x 9.9cm x 5.7cm 7.3" x 3.9" x 2.3"	38cm x 31cm x 8.2cm 15" x 12.2" x 3.2"	<i>See cluster controller datasheet</i>	9.7cm x 4.5cm x 2.1cm 3.8" x 1.8" x 0.8"
<b>Approximate product weight</b>	300 g (10.5 oz)	5.45 kg (12 lbs)		75.2 g (2.7 oz)
<b>Material</b>	ABS plastic	ABS plastic		ABS plastic
<b>Electrical Specifications</b>				
<b>Input voltage</b>	12 - 15 VDC polarity sensitive	12 - 15 VDC polarity sensitive	<i>See cluster controller datasheet</i>	11 - 14 VDC polarity sensitive
<b>Power requirements at 12 VDC, relays off</b>	140 mA current 1.7 W power	140 mA current 1.7 W power		90 mA current 1.08 W power
<b>Power requirements at 12 VDC, four relays activated</b>	230 mA current 2.7 W power	230 mA current 2.7 W power		-
<b>Relay power requirements</b>	Additional 0,4W per relay in use	Additional 0,4W per relay in use		-
<b>Power input protection</b>	Reverse polarity and transient voltage protection	Reverse polarity and transient voltage protection		-
<b>Digital input type</b>	Eight dry-contact inputs with end of line sensing	Eight dry-contact inputs with end of line sensing		-
<b>Relay outputs</b>	Four single-pole, double-throw (SPDT) relays with NO, COM and NC contacts	Four single-pole, double-throw (SPDT) relays with NO, COM and NC contacts		-
<b>Relay contact ratings</b>	10 A at 28 VDC 5 A at 220 VDC 12 A at 120 VAC	10 A at 28 VDC 5 A at 220 VDC 12 A at 120 VAC	-	
<b>Card Compatibility</b>				
<b>Type</b>	N/A			125kHz RFID proprietary encrypted EM4305
<b>Anti-tamper Protection</b>				
<b>Type</b>	PCB mounted switch	PCB mounted switch	<i>See cluster controller datasheet</i>	-
<b>Environmental Specifications</b>				
<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>	IP20			IP51
<b>Certifications</b>				
<b>UL (US)</b>	on request	on request	on request	on request
<b>CE (EU)</b>	pending	pending	pending	pending
<b>SABS (RSA)</b>	yes	yes	yes	yes
<b>RoHS</b>	yes	yes	yes	yes



**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)