

OSDP reader MODULE

- **Global standard:** open platform, accredited by the IEC
- **Security:** higher levels of security (AES-128 encryption)
- **Cost effective:** reduced cabling and installation complexity

2 reader ports | 2 relays | 4 digital inputs



WHO SHOULD USE THE OSDP READER MODULE?

Organisations looking to increase their security and interoperability, with a future-proofed technology that is a global open standard.

PRODUCT BENEFITS:

- Encrypted communication between reader and controller, to prevent security breaches
- Supports both OSDP and Wiegand protocols for simplified upgrade path
- Bidirectional communication for remote reader management
- Installation can be up to 1,000m from the controller
- Plug-and-play simplicity
- Eight diagnostic LEDs
- Supports a variety of reader types, including biometrics

Impro's OSDP module meets the needs for high security, whilst maintaining true plug-and-play simplicity in an installation.

Security

OSDP provides higher levels of security with up to AES-128 encryption between the reader and controller, removing the risk of "man-in-the-middle" attacks possible with legacy protocols.

In addition, OSDP constantly monitors wiring to protect against tampering and provide feedback on the reader state.

Bidirectional communication

Installation is simplified with the use of OSDP's bidirectional communication, as readers can be configured through the software.

Another benefit is the ability to customise the reader interface to display messages or adjust audio/visual feedback.

Reduced costs

Installing OSDP requires two wires, compared to 11 wires for Wiegand, resulting in an immediate cost saving. In addition, due to the simplicity of installation, there's less time on site.

OSDP can also achieve up to ten times longer cable runs from the controller, again reducing site complexity and cost.

Open standard

OSDP operates on a globally accredited open standard, which is quickly being adopted by manufacturers. This enables the industry to continue evolving the standard, its interoperability and enable the future-proofing of your access control.

Upgrade compatibility

An unique feature of Impro's OSDP module is support for both OSDP and Wiegand, to enable a simplified upgrade path. The module is able to manage both protocols, reducing the need for immediate rip and replace of all readers, when upgrading to OSDP.

Specifications

OSDP READER MODULE

Model name	OSDP reader module		OSDP reader module IPS
Product description	OSDP reader module in plastic housing		OSDP reader module for IPS box
Part number	HMX900		HMX901
Colour	Black		Black
Dimensions (d-w-h)	18.6cm x 9.9cm x 5.7cm [7.3" x 3.9" x 2.3"]		17.5cm x 7.1cm x 3.8cm [6.9" x 2.8" x 1.5"]
Approximate product weight	280g [9.9 oz]		250g [8.8oz]
Material	ABS plastic		ABS plastic
Electrical specifications			
Input voltage	12 VDC nominal, 15 VDC max, polarity sensitive		
Power requirements at 12 VDC relays off	60 mA current 0.9 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
OSDP port specifications			
Baud rate	115.2Kbit/s, dependent on cable type		
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)	✓		
UL	On request		
RoHS	✓		
SABS (RSA)	✓		



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

HQ tel: +27 (31) 717 0700
Email: info@impro.net
Web: www.impro.net