

The OSM-1000 OSDP-Wiegand Converter retrofits a legacy Wiegand access control system to use SIA's OSDP standard.

The OSM-1000 offers a choice of 2 operating modes. When used in PD (Peripheral Device) mode, it connects a traditional Wiegand reader to an OSDP access control unit. When used in ACU (Access Control Unit) mode, the OSM-1000 connects an OSDP reader with a legacy Wiegand access controller. Two OSM-1000 converters may be used together in opposite modes to connect a Wiegand reader to a Wiegand Access Controller, with an OSDP connection in between. The OSDP connection is securely encrypted when the OSM-1000 is used in Secure Channel mode.

The OSM-1000 is OSDP Verified, certifying that the device meets all independent conformance testing according to Security Industry Association specifications.

What is OSDP?

The Open Supervised Device Protocol (OSDP™) is an access control communications standard developed by the Security Industry Association (SIA) to improve interoperability among access control and security products. OSDP v2.1.7 is a standard recognized by the IEC international standards organization, and OSDP is in constant refinement to retain its industry-leading position.

Why specify or adopt OSDP?

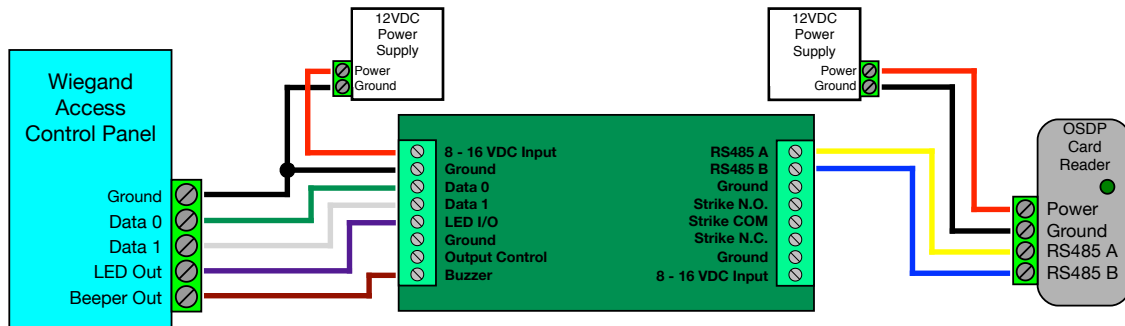
Already in wide use by many leading manufacturers like Cypress, HID Global, Mercury and others, the Security Industry Association encourages broad adoption of this standard and recommends specifying OSDP for any access control installations that require real security and/or will be used in government and other higher security settings. It is particularly valuable for government applications because OSDP meets federal access control requirements like PKI for FICAM.

Source: Security Industry Association
From <https://www.securityindustry.org/industry-standards/open-supervised-device-protocol>

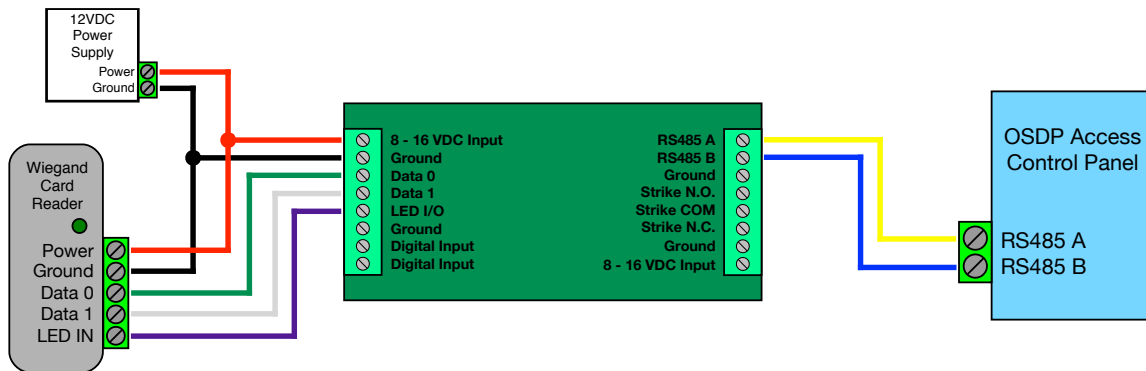
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Wiegand access controller and OSDP reader (ACU mode)



Wiegand reader and OSDP access controller (PD mode)



Specifications			
Ordering	OSM-1000 (board only)	UPC: 816684007743	
OSDP version	OSDP Verified: Conforms to SIA independent conformance testing for the Open Supervised Device Protocol (OSDP™)		
Physical	Dimensions	3.9 x 1.6 x 0.5 inches 9.90 x 4.064 x 1.27 cm	
	Weight	0.05 lbs. 0.22 kg	
Electrical	Supply voltage	8-16 Vdc current 300mA	
	Relays	Max switching	220Vdc 30W (resistive) 1A / 250Vac 37.5VA 1A
		Running spec with load	30Vdc 1A (resistive) / 125 Vac 0.3A (resistive), 1x10 ⁵ operations @ 20° C
Additional Features	Supports up to 256-bit Wiegand with GPIO including LED, REX/door position, lock and buzzer		
	Converts legacy Wiegand readers to OSDP protocol		
	Integrates legacy Wiegand panels with OSDP readers		

SIA's Open Supervised Device Protocol (OSDP) v2.2.0 communication standard benefits

- **Security:** OSDP Secure Channel halts Wiegand hacking with AES-128 encryption
- **Interoperability:** Mix-and-match devices to help future-proof systems
- **Functionality:** 2-way communication, access control that withstands the elements, multi-drop installations, 2 wires instead of 10+
- **Communication:** With OSDP's 2-way communication, the panel can query readers to find out capabilities, without physically reconfiguring devices. The panel is alerted if the reader does not answer its query.
- **Savings:** OSDP is scalable. It supports many more devices – and many more types of devices (such as readers, strike sensors and alarms) – than the Wiegand protocol.

Learn more at OSDP-Connect.com or CypressIntegration.com/OSDP