HONEYWELL OMNI® SMART READERS

Physical Access Solutions
Models: OS20, OS40, OS20K, OS40K

OS20

OS20K

OS40

OS40K

READY FOR THE FUTURE NOW

- Mobile-ready by default
- Sleek, innovative design to suit modern architecture
- Integrated OSDP for secure authentication and configuration post installation
- Built on a hardware platform designed to be adaptable to support future technology
- Leveraging the power of the HID Origo® ecosystem
- Supports Apple's Enhanced Contactless Polling (ECP) to support credentials in Apple Wallet

THE SIGNATURE LINE OF READERS FROM HONEYWELL

HIGHLY VERSATILE

- Support for the widest range of credential technologies, including HID Mobile Access® via native Bluetooth and Near Field Communication (NFC).

UNPARALLELED PERFORMANCE

- Ultra secure storage of cryptographic keys on certified secure element hardware, plus a new surface detection feature that enables the reader to automatically recalibrate and optimize read range performance.

CONNECTED TO THE FUTURE

- All readers include out-of-the-box support for Open Supervised Device Protocol (OSDP) for secure bidirectional communication.

Omni® Smart is Honeywell's signature line of physical access control readers. The versatility, performance and connected capabilities of Honeywell Omni® Smart readers set a new industry benchmark for the most highly adaptable, interoperable and secure approach to electronic access control.

Offering an unparalleled breadth of functionality, Honeywell Omni® Smart affords security system installers and administrators a simple and effective approach to secure access control for almost any scenario.

With support for the widest array of credential technologies — past, present and future — Honeywell Omni® Smart is the perfect choice for those looking to make the transition to a secure authentication technology.

Honeywell Omni® Smart readers transcend the traditional approach to security by being designed to be connected and managed remotely without needing to physically touch each device. This functionality empowers access control systems to dynamically respond as new needs, configurations or threats arise.

POWERFULLY SECURE

- Multi-Layered security to ensure data authenticity and privacy
- EAL5+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports iCLASS Elite™ and corporate 1000 programs

MEET EVERY NEED, ADAPT TO ANY SITUATION

- Go mobile with native Bluetooth and NFC support
- Integrated 125 kHz credential read support for easy migration
- Supports over 15 common credential technologies
- Flush mount terminal block and pigtail wiring options
- Robust outdoor performance with an IP65 rating

MANAGE, UPGRADE AND CONFIGURE

- Leverage HID reader manager for easy set up and management
- Configure via a mobile device or OSDP
- Update firmware in response to threats
- Personalize by configuring audio visual or keypad settings
- Deactivate legacy credential technology to conclude secure migration

Honeywell

HONEYWELL OMNI® SMART READERS

SPECIFICATIONS

HONEYWELL BRAND STANDARDS				
OMNI® SMART READER MODEL	OS20	OS20K	OS40	OS40K
2.4 GHZ (BLUETOOTH) CREDENTIAL COMPATIBILITY	Mobile Credentials powered by Seos® (HID Mobile Access)			
13.56 MHZ (NFC) CREDENTIAL COMPATIBILITY	Seos, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2/EV3, FeliCa™ and Contactless e-Purse Application Specification (CEPAS), Mobile Credentials powered by Seos (HID Mobile Access)			
125 KHZ CREDENTIAL COMPATIBILITY	Quadrakey®, HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity			
TYPICAL READ RANGE1	Seos®, MIFARE Classic, MIFARE DESFire EV1/EV2/EV3 and ISO14443A Single Technology Cards – 1.6 to 4 in (4 to 10 cm) HID / AWID Proximity®, Indala Proximity®, EM Proximity and 125 kHz Single Technology Cards – 2.4 to 4 in (6 to 10 cm)			
MOUNTING	Suited for mullion-mount door installations or any flat surface mounting		Suited to mount and cover single gang switch boxes with a slotted mounting plate for alternate back-box spacing	
COLOR	Black bezel with silver trim baseplate 2			
KEYPAD	No	Yes (2 x 6 layout)	No	Yes (3 x 4 layout)
DIMENSIONS (WIDTH X LENGTH X DEPTH)	1.77 in x 4.78 in x 0.77 in (45 mm x 121.5 mm x 19.5 mm)	1.78 in x 4.79 in x 0.85 in (45 mm x 121.5 mm x 21.5 mm)	3.15 in x 4.78 in x 0.77 in (80 mm x 121.5 mm x 19.5 mm)	3.16 in x 4.79 in x 0.85 in (80 mm x 121.5 mm x 21.5 mm)
PRODUCT WEIGHT	Pigtail: 3.35 oz (95 g) Terminal: 2.65 oz (75 g)	Pigtail: 3.88 oz (110 g) Terminal: 3.17 oz (90 g)	Pigtail: 4.94 oz (140 g) Terminal: 4.23 oz (120 g)	Pigtail: 5.64 oz (160 g) Terminal: 4.94 oz (140 g)
OPERATING VOLTAGE	12V DC			
CURRENT DRAW3	NSC4: 60 mA Peak: 250 mA Max. Avg: 70 mA IPM5: 45 mA	NSC4: 65 mA Peak: 250 mA Max. Avg: 75 mA IPM5: 48 mA	NSC4: 65 mA Peak: 250 mA Max. Avg: 75 mA IPM5: 45 mA	NSC4: 70 mA Peak: 250 mA Max. Avg: 80 mA IPM5: 55 mA
DEVICE INPUT AND OUTPUT	Input: Tri-color LED, Buzzer, Hold @ Active Low Output: Tamper Relay 0-60V DC @ 100mA Max (Dry Contact)			
OPERATING TEMPERATURE AND HUMIDITY	-31° F to +150° F (-35° C to +66° C) 0% to 95% non-condensing			
STORAGE TEMPERATURE	-40° F to +185° F (-40° C to +85° C)			
ENVIRONMENTAL RATING	UL294 Outdoor and Indoor rated, IP65			
TRANSMIT FREQUENCY	125 kHz, 13.56 MHz, and 2.4 GHz			
COMMUNICATIONS AND PANEL CONNECTION	Wiegand, Clock-and-Data and RS-485 Half Duplex (OSDP) via Pigtail (18 in / 0.5 m) or Terminal Strip			
DEVICE MANAGEMENT	HID Reader Manager / OSDP configuration			
CERTIFICATIONS	UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan), Green-circle, Bluetooth SIG, and additional regions.			
SECURITY RATINGS	EAL 5+ Certified Secure Element Hardware			
HOUSING MATERIALS	Polycarbonate – UL94 V0			
UL REFERENCE NUMBER	20	20K	40	40K
WARRANTY	Limited Lifetime			

1. Read range listed is statistical mean rounded to nearest centimetre increment for ID-1 or clamshell credentials. HID Global testing occurs in open air. Form factor, technology and environmental conditions, including metallic mounting surface, can degrade read range performance; plastic spacers are recommended to improve performance on metallic mounting surfaces.

2. Black trim baseplate and reader spacers available as an additional accessory at an additional cost.

3. Measured in accordance with UL294 standards; see Installation Guide for details.

4. NSC – Normal Standby Current; see Installation Guide for details.

5. Intelligent Power Management (IPM) – Reduces reader current consumption up to 43%, based on model, compared to standard operating mode.

GreenCircle CERTIFIED — A SUSTAINABLE SOLUTION · CERTIFIED ENERGY SAVINGS

HONEYWELL OMNI® SMART READERS

EASY ORDERING GUIDE

All Omni® Smart readers are Mobile Ready

TERMINAL CONNECTION	
MULLION OSDP CONFIGURED - STANDARD CARD PROFILE, OSDP V2	
OS20TOSDP	Omni® Smart 20, Terminal, Standard Profile, OSDP V2
SWITCHPLATE OSDP CONFIGURED - STANDARD CARD PROFILE, OSDP V2	
OS40TOSDP	Omni® Smart 40K, BLK/SLVR, Terminal, Standard Profile, OSDP V2

TERMINAL CONNECTION WITH KEYPAD	
MULLION OSDP CONFIGURED - STANDARD CARD PROFILE, OSDP V2	
OS20KTOSDP	Omni® Smart 20K, BLK/SLVR, Terminal, Standard Profile, OSDP V2
SWITCHPLATE OSDP CONFIGURED - STANDARD CARD PROFILE, OSDP V2	
OS40KTOSDP	Omni® Smart 40K, BLK/SLVR, Terminal, Standard Profile, OSDP V2

COMPATABILITY NOTES	OS2OTOSDP	OS40TOSDP	OS20KTOSDP	OS40KTOSDP
OSDPv2	•	•	•	•
WIEGAND (CONVERSION POSSIBLE WITH HID READER MANAGER APP)	–	–	–	–
WIN-PAK, P-SERIES	•	•	•	•

• Supported   – Not supported

HONEYWELL OMNI® SMART READERS

Configuring your reader

1. OS –OMNI® SMART

2. SELECT HARDWARE OPTION (Select one model)

OS20
Designed for applications requiring a narrow reader

OS20K
Designed for applications requiring a narrow reader with 2 x 6 capacitive keypad

OS40
Designed for applications requiring wall switch mounting

OS40K
Designed for applications requiring wall switch mounting with 3 x 4 capacitive keypad

3. SELECT CREDENTIAL PROFILE (Select one option)

COMMUNICATION	NFL/BLE	HIGH FREQUENCY												LOW FREQUENCY		
CREDENTIALS SUPPORTED	Seos (mobile IDs via NFC/BLE)	Seos	iCLASS SE	iCLASS SR	iCLASS	MIFARE DESFire EV1/EV2 (SIO)	MIFARE Classic (SIO)	MIFARE DESFire EV1/EV2 (CSN)	MIFARE Classic (CSN)	MIFARE DESFire EV1/EV2 (Custom Data)	MIFARE Classic (Custom Data)	FeliCa idm	CEPAS (CAN or UID)	125khz HID Proximity	125khz Indala Proximity	125khz EM4102 Proximity
☐ 00 – STANDARD PROFILE	●	●	●	●	●	●	●	●	●	–	–	–	–	●	●	●
☐ 03 – CUSTOM PROFILE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Supported   – Not supported

4. WIRING CONNECTION

☒ T – Terminal Strip

BODY COLOR

☒ Black

TRIM/MOUNTING PLATE COLOR

☒ Silver

A black trim/mounting plate is available as an accessory item at an additional cost. Please see accessories list below.

EXAMPLE	OMNI® SMART	READER MODEL	CREDENTIAL PROFILE	WIRING CONNECTION	BODY COLOR	TRIM COLOR	–	CUSTOM CONFIGURATION
OS20TOSDP	OS	20	–	T	–	–	–	CONTACT SUPPORT TEAM

Custom Configurations – (03-Custom Profile) please consult with your support team for custom configuration options and ordering.

Reader Configuration – Powered by HID, to configure your readers utilize the reader manager App available in the Apple or Android store.

Reader Manager HID

Download on the App Store

GET IT ON Google Play

For More Information
buildings.honeywell.com/security

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THE FUTURE IS WHAT WE MAKE IT

Honeywell