

# 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
<b>2.4 GHZ (BLUETOOTH) CREDENTIAL COMPATIBILITY</b>	Mobile Credentials powered by Seos® (HID Mobile Access)			
<b>13.56 MHZ (NFC) CREDENTIAL COMPATIBILITY</b>	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)			
<b>125 KHZ CREDENTIAL COMPATIBILITY</b>	HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity			
<b>TYPICAL READ RANGE<sup>1</sup></b>	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)			
<b>MOUNTING</b>	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	
<b>COLOR</b>	Black bezel with silver trim baseplate 2			
<b>KEYPAD</b>	No	Yes (2 x 6 layout)	No	Yes (3 x 4 layout)
<b>DIMENSIONS (WIDTH X LENGTH X DEPTH)</b>	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)
<b>PRODUCT WEIGHT</b>	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)
<b>OPERATING VOLTAGE</b>	12V DC			
<b>CURRENT DRAW<sup>3</sup></b>	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
<b>DEVICE INPUT AND OUTPUT</b>	Input: Tri-color LED, Buzzer, Hold @ Active Low Output: Tamper Relay 0-60V DC @ 100mA Max (Dry Contact)			
<b>OPERATING TEMPERATURE AND HUMIDITY</b>	-31° F to +150° F (-35° C to +66° C) 0% to 95% non-condensing			
<b>STORAGE TEMPERATURE</b>	-40° F to +185° F (-40° C to +85° C)			
<b>ENVIRONMENTAL RATING</b>	UL294 Outdoor and Indoor rated, IP65			
<b>TRANSMIT FREQUENCY</b>	125 kHz, 13.56 MHz, and 2.4 GHz			
<b>COMMUNICATIONS AND PANEL CONNECTION</b>	Wiegand, Clock-and-Data and RS-485 Half Duplex (OSDP) via Pigtail (18 in / 0.5 m) or Terminal Strip			
<b>DEVICE MANAGEMENT</b>	HID Reader Manager / OSDP configuration			
<b>CERTIFICATIONS</b>	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.			
<b>SECURITY RATINGS</b>	EAL 5+ Certified Secure Element Hardware			
<b>HOUSING MATERIALS</b>	Polycarbonate – UL94 V0			
<b>UL REFERENCE NUMBER</b>	20	20K	40	40K
<b>WARRANTY</b>	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.



# 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** Change to: 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

	OS20TOSDP	OS40TOSDP	OS20KTOSDP	OS40KTOSDP
OSDPv2	•	•	•	•
WIEGAND	-	-	-	-
WIN-PAK, P-SERIES	•	•	-	-

• Supported - Not supported

The MR62e panel is not supported with the OmniSmart series readers

# HONEYWELL OMNI<sup>®</sup> SMART READERS

## Configuring your reader

### 1. OS – OMNI<sup>®</sup> 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
<input type="checkbox"/> 00 - STANDARD PROFILE	●	●	●	●	●	●	●	●	●	-	-	-	-	●	●	●
<input type="checkbox"/> 03 - CUSTOM PROFILE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Supported - Not supported

### 4. WIRING CONNECTION

### BODY COLOUR

### TRIM/MOUNTING PLATE COLOUR

T - Terminal Strip

Black

Silver

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

EXAMPLE	OMNI <sup>®</sup> SMART	READER MODEL	CREDENTIAL PROFILE	WIRING CONNECTION	BODY COLOUR	TRIM COLOUR	—	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.



#### For More Information

[buildings.honeywell.com/security](https://buildings.honeywell.com/security)

#### Honeywell Building Technologies

Building 5 Carlton Park  
King Edward Avenue  
Narborough, Leicester  
LE19 0AL  
United Kingdom

Tel: +44 (0) 1163 500714

[www.honeywell.com](https://www.honeywell.com)

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HBT-DS-H4D8GR1-UK-EN-18apr2022  
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FUTURE  
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WHAT  
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MAKE IT

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