

HONEYWELL OMNI[®] SMART READERS

Physical Access Solutions
Models: 20, 40, 20K, 40K

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 HID GLOBAL



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.

POWERFULLY SECURE

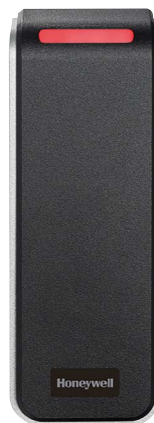
- Multi-Layered security to ensure data authenticity and privacy
- EAL5+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports iCLASS Elite[™] and Corporate 1000 Programs

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



20



20K



40



40K

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.

Honeywell

HONEYWELL OMNI® SMART READERS

SPECIFICATIONS

| HONEYWELL BRAND STANDARDS | | | | |
|---|--|--|---|--|
| OMNI® SMART READER MODEL | 20 | 20K | 40 | 40K |
| 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 | 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.



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(R)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® SMART READERS

I 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 idrm | CEPAS (CAN or UID) | 125kHz HID Proximity | 125kHz Indala Proximity | 125kHz EV4102 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® 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

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THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell