

HONEYWELL OMNI[®] SMART H-KEY READERS

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

READY FOR THE FUTURE NOW

- Mobile ready for MaxPro Cloud's Honeywell Mobile App
- Sleek, innovative design to suit modern architecture
- Integrated OSDP for secure authentication and configuration post installation
- Built on a hardware platform to support Honeywell's SEOS H-key, and Mobile key app

THE SIGNATURE LINE OF READERS FROM HID GLOBAL



HIGHLY VERSATILE

- Support for the Honeywell SEOS H-key credential technology, including MaxPro Cloud Mobile Key App 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.

FEATURES AND BENEFITS



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 Honeywell SEOS H-key data model



MEET EVERY NEED, ADAPT TO ANY SITUATION

- Go mobile the Honeywell Mobile Key app on MaxPro Cloud with native Bluetooth support
- Supports Honeywell SEOS H-key technology
- Flush mount terminal block wiring option
- Robust outdoor performance with an IP65 rating



MANAGE, UPGRADE AND CONFIGURE

- Leverage HID reader manager for easy set up and management
- Configured OSDPv2 out of the box
- Update firmware in response to threats
- Personalize by configuring audio visual or keypad settings
- Legacy low frequency proximity credential technology is eliminated to ensure a secure installation and lower costs



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, easy to use, 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 Honeywell SEOS H-key credential technology, Honeywell Omni[®] Smart is the perfect choice for those looking to make the transition to a secure, easy to deploy 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.

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HONEYWELL OMNI[®] SMART H-KEY READERS

SPECIFICATIONS

HONEYWELL BRAND STANDARDS				
OMNI® SMART READER MODEL	20	20K	40	40K
2.4 GHZ (BLUETOOTH) CREDENTIAL COMPATIBILITY	Mobile Credentials powered MaxPro Cloud Honeywell SEOS Mobile Key App			
13.56 MHZ (NFC) CREDENTIAL COMPATIBILITY	Honeywell SEOS H-key, Mobile Credentials powered by MaxPro Cloud Honeywell SEOS Mobile Key App			
TYPICAL READ RANGE1	Honeywell SEOS H-key Single Technology Cards – 1.6 to 4 in (4 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	13.56 MHz, and 2.4 GHz			
COMMUNICATIONS AND PANEL CONNECTION	RS-485 Half Duplex (OSDP) via 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.



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OMNI[®] SMART H-KEY READERS

EASY ORDERING GUIDE

All Omni[®] Smart readers are Mobile Ready

TERMINAL CONNECTION				
MULLION OSDP CONFIGURED - HONEYWELL SEOS H-KEY CARD PROFILE, OSDP V2				
OS20T1TOSDPH		Omni®Smart 20 HON-SEOS, MPC-MOB T Terminal Block OSDP V2		
SWITCHPLATE OSDP CONFIGURED - STANDARD CARD PROFILE, OSDP V2				
OS40T1TOSDPH		Omni®Smart 40 HON-SEOS, MPC-MOB T Terminal Block OSDP V2		
TERMINAL CONNECTION WITH KEYPAD (4-BIT MESSAGE)				
MULLION OSDP CONFIGURED - HONEYWELL SEOS H-KEY CARD PROFILE, OSDP V2				
OS20KT1TOSDPH		Omni®Smart 20K HON-SEOS, MPC-MOB T Keypad Terminal Block OSDP V2		
SWITCHPLATE OSDP CONFIGURED - HONEYWELL SEOS H-KEY CARD PROFILE, OSDP V2				
OS40KT1TOSDPH		Omni®Smart 40K HON-SEOS, MPC-MOB T Keypad Terminal Block OSDP V2		
HONEYWELL H-KEY CREDENTIALS				
OSHON8KS		HON H-Key SEOS 8k Cards		
OSHON8KSP		HON H-Key SEOS 8k/Prox Cards (Customer to specify site code and start numbers for Prox)		
COMPATABILITY NOTES				
	OS20TOSD	OS40TOSDP	OS20KTOSD	OS40KTOSD
OSDPv2	•	•	•	•
WIEGAND	—	—	—	—

• Supported - Not supported

HONEYWELL OMNI[®] SMART H-KEY READERS

I Configuring your reader

1. OS –OMNI[®] SMART

2. SELECT HARDWARE OPTION (Select one model)



20

Designed for applications requiring a narrow reader



20K

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



40

Designed for applications requiring switch mounting



40K

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
☐ T1 - HONEYWELL SEOS H-KEY 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
OS20T1TOSDPH	OS	20	T1	T	-	-	-	PRE-CONFIGURED WITH HONEYWELL SEOS H-KEY

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

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