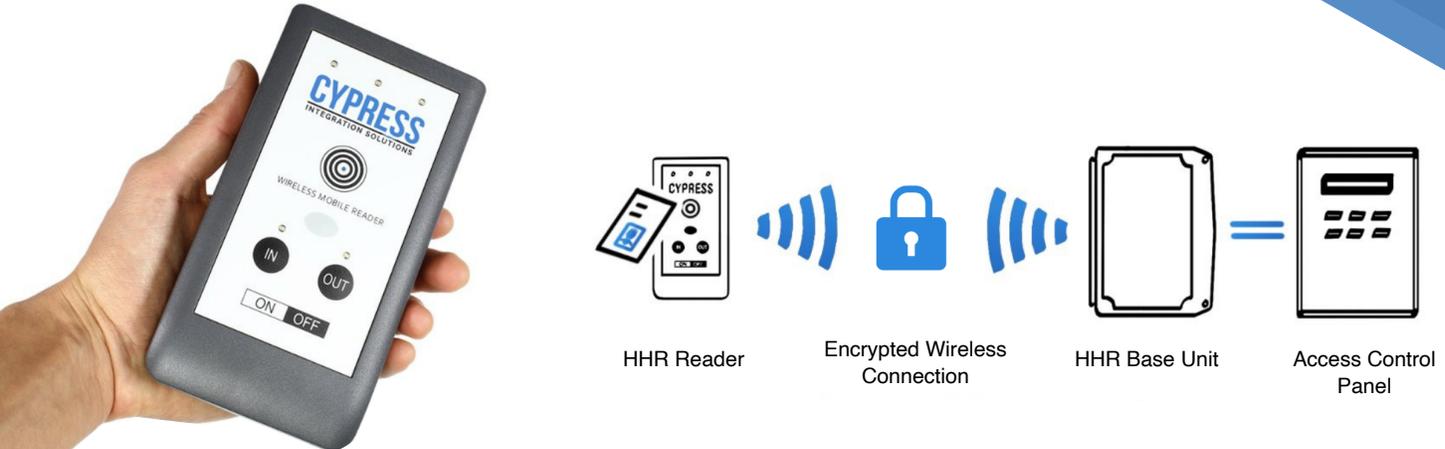


Cypress Handheld Reader System

with OSDP Secure Channel wireless communication



The Handheld Reader communicates with the Base Unit over an encrypted wireless connection, using SIA's OSDP protocol with Secure Channel. The Base Unit connects to the access controller similar to a standard Wiegand reader; the access control panel validates the credentials.

Features:

- HHR Reader displays Access Granted or Access Denied responses after reading credentials (LEDs, buzzer, and vibrate)
- HHR reader can switch between IN and OUT modes with buttons on the face of the reader
- Vend Button on the HHR Reader controls a relay output on the Base Unit for duress alarms or manual door/gate control
- Credential data is not stored by the HHR Reader or the Base Unit; the HHR system is connected to the access controller's live database of credentials
- Kits include HHR Reader(s), Base Unit, Charging Dock(s), and wall-plug Charger(s)

Kit Part Numbers	
1-Reader, Dual-lane kit	HHR-4156-GY (UPC: 816684002441), HHR-4156-WH (UPC: 816684002458)
2-Reader, Dual-lane kit	HHR-4256-GY (UPC: 816684002700), HHR-4256-WH (UPC: 816684002717)
3-Reader, Dual-lane kit	HHR-4356-GY (UPC: 816684002724), HHR-4356-WH (UPC: 816684002731)

HHR-4000_Dual_DS_210920



Specifications					
Kit Contents	HHR-4156-GY	HHR-8056-GY, HHR-8400, HHR-DOCK-GY, HHR-RCHL			
	HHR-4156-WH	HHR-8056-WH, HHR-8400, HHR-DOCK-WH, HHR-RCHL			
	HHR-4256-GY	HHR-8056-GY x2, HHR-8400, HHR-DOCK-GY x2, HHR-RCHL x2			
	HHR-4256-WH	HHR-8056-WH x2, HHR-8400, HHR-DOCK-WH x2, HHR-RCHL x2			
	HHR-4356-GY	HHR-8056-GY x3, HHR-8400, HHR-DOCK-GY x2, HHR-RCHL x2			
	HHR-4356-WH	HHR-8056-WH x3, HHR-8400, HHR-DOCK-WH x2, HHR-RCHL x2			
Individual Part Numbers	Reader - Dual-lane	HHR-8056-GY (UPC: 816684002632), HHR-8056-WH (UPC: 816684002649)			
	Base - Dual-lane	HHR-8400 (UPC: 816684002489)			
	Dock	HHR-DOCK-GY (UPC: 816684001291), HHR-DOCK-WH (UPC: 816684001307)			
	Charger	HHR-RCHL (UPC: 816684001284)			
Physical	Handheld Reader	6.81" x 3.63" x 1.58" (17.30 x 9.22 x 4.01 cm) / 1.2 lbs (0.54 kg)			
	Charging Dock	4.76" x 4.1" x 2.2" (12.09 x 10.41 x 5.59 cm) / 0.35 lbs (0.16 kg)			
	Base Unit	9.25" x 7.0" x 2.25" (23.50 x 17.78 x 5.72 cm) / 1.3 lbs (0.59 kg)			
Environmental	Temperature Range	-17 to 54 C			
	HHR Reader	Weatherproof Enclosure - ASA+PC-FR - IP65			
	HHR Base Unit	Weatherproof Enclosure - Polycarbonate (PC) - IP65			
Electrical	Base Unit Supply Voltage	8-16Vdc Current 600mA			
	Handheld Reader Internal	7.4V 3800mAh Rechargeable (not field-serviceable)			
	Charging Dock	Input: 100-240 Vac, 1A, 50/60Hz Max			
	Relays	<table border="1"> <tr> <td>Max Switching</td> <td>220Vdc 30W (resistive) 1A / 250Vac 37.5VA 1A</td> </tr> <tr> <td>Running Spec with load</td> <td>30Vdc 1A (resistive) / 125 Vac 0.3A (resistive), 1x10⁵ operations @ 20°C</td> </tr> </table>	Max Switching	220Vdc 30W (resistive) 1A / 250Vac 37.5VA 1A	Running Spec with load
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Credential Technologies	HID Prox, EM4102, AWID Prox; ISO14443A/B ISO15693, FeliCa™ (IDm); MIFARE Classic®, MIFARE DESFire® 0.6, MIFARE DESFire® EV1 (32 bit CSN), HID: iCLASS® Standard/SE/SR/Seos; PIV II, Secure Identity Object® (SIO®)				
Radio	Wireless Physical Layer	IEEE 802.15.4			
	Frequency	2.4 GHz ISM Band			
	Type	Direct Sequence Spread Spectrum (DSSS)			
	Transmit Power	15 dBm			
	Receiver Sensitivity	-103 dBm (1% PER, 250Kbps)			
	Modulation	O-QPSK			
	Agency Approvals	<table border="1"> <tr> <td>FCC Part 15.247: FCC ID: U90-SM220</td> </tr> <tr> <td>Industry Canada (IC): 7084A-SM220</td> </tr> <tr> <td>CE Certified: Certified to EN300 328 Version 1.8.1</td> </tr> </table>	FCC Part 15.247: FCC ID: U90-SM220	Industry Canada (IC): 7084A-SM220	CE Certified: Certified to EN300 328 Version 1.8.1
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CE Certified: Certified to EN300 328 Version 1.8.1					
Security Encryption	OSDP v2.2 with Secure Channel Encryption (IEC 60839-11-5)				
Wireless range	Indoor	150 feet* (45 meters*) typical range			
	Outdoor	500 feet* (150 meters*) typical range			
	<i>*Note: Distances are typical line-of-sight. Actual distance may vary depending upon terrain, RF environment, building</i>				
Additional Features	Vend button controls a relay for functions such as operating gates or possible duress notification.				
	Handheld Reader's gate-selection feature can be used for ingress and egress lanes or gates.				