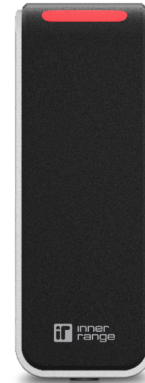# HYBRID HID / IR
MULTI-FORMAT SUPPORT

Native support for the widest range of credential technologies.

When it comes to access control, choice matters. No access control reader available on the market today compares to HID Signo in the breadth of support for high-frequency technologies. In fact, HID Signo Readers are flexible by design, capable of interoperability with over 15 credential technologies, including Seos®, HID Mobile Access®, MIFARE® DESFire® EV1/EV2/ EV3, iCLASS®, and and now with the Inner Range 128 bit, AES encrypted SIFER format.

This unparalleled credential support also extends beyond just today's technologies, a single HID Signo Reader is also capable of supporting all of the following legacy credential technologies:

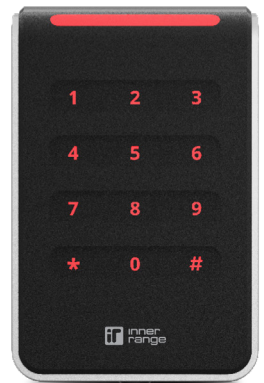| CREDENTIALS AUTHORISED	CUSTOM PROFILE	COMMUNICATION TYPE
Seos (Traditional & Mobile)	✓	HF, NFC or BLE
iCLASS SE	✓	HF
iCLASS SR	✓	HF
iCLASS Legacy	✓	HF
DESFire EV1/EV2 (SIO)	✓	HF
MIFARE Classic (SIO)	✓	HF
Card Serial Number (CSN)	✓	HF
125kHz HID Prox	✓	LF
125kHz Indala	✓	LF
125kHz EM4102	✓	LF
Felica	✓	HF
CEPAS	✓	HF
DESFire EV1/EV2 (Custom Data)	✓	HF
MIFARE Classic (Custom Data)	✓	HF
Inner Range SIFER	✓	HF
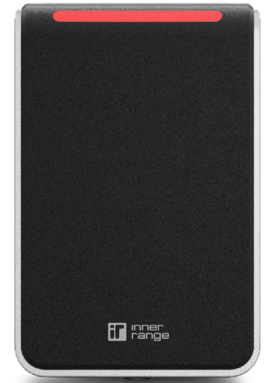
Not only does this capability provide choice, it simplifies migration to modern credential technologies. Each Hybrid Signo SIFER Reader also incorporates Apple's Enhanced Contactless Polling (ECP) to support credentials in Apple Wallet.

Mobile Wallet Credentials
HID is set to revolutionise the global landscape as the leading provider of Mobile Wallet credentials for Apple iOS and Android smartphones and wearables. By partnering with HID, Inner Range is poised to deliver a seamless, integrated experience, connecting Mobile Wallet Credentials effortlessly with our broadly integrated Access Control solutions. This collaboration ensures that our customers enjoy the convenience that HID and Inner Range can deliver to meet the complex demands of these applications. Future proof your site by deploying the Inner Range Hybrid Signo SIFER Reader technology to ensure that all HID formats, the Inner Range SIFER format, and Mobile Wallet Credentials by iOS and Android are all allowed for in a single RFID Reader.

HID-20-IR   HID-40-IR

HID-20K-IR   HID-40K-IR

INNERRANGE.COM

HID SIGNO READER MODELS	20	20K	40	40K
2.4 GHz (Bluetooth) Credential Compatibility	Mobile Credentials powered by Seos® (HID Mobile Access)			
13.56 MHz (NFC) Credential Compatibility	SSeos, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2, FeliCa™ & Contactless e-Purse Application Specification (CEPAS), Mobile Credentials powered by Seos (HID Mobile Access), Inner Range 128 bit AES encrypted SIFER format.			
125 kHz Credential Compatibility	HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity			
Typical Read Range[1]	Seos®, MIFARE Classic, MIFARE DESFire EV1/EV2 & ISO14443A Single Technology Cards – 1.6 to 4 in (4 to 10 cm) HID / AWID Proximity®, Indala Proximity®, EM Proximity & 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	
Colour	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 Draw[3, 4, 5]	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 & 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 & 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), GreenCircle, Bluetooth SIG, and additional regions. www.hidglobal.com/certifications			
Security Ratings	EAL 5+ Certified Secure Element Hardware			
Patents	www.hidglobal.com/patents			
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 centimeter 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 & 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.