



SCALABLE CAPACITIVE KEYPAD READER FOR HIGH-SECURITY ACCESS CONTROL



COMPATIBILITY

- ISO14443 types A & B
- MIFARE[®] credentials
- SECard software
- OSDP[™] / SSCP protocols

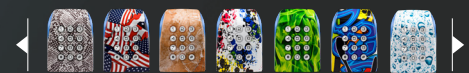
LET YOUR IMAGINATION FLOW

Customization of the multicolor LEDs (RGB, 360 colors)



PRINTING OF YOUR LOGO using digital UV or pad printing

Latest customization technology named Skin effect



Casing color choice



CERTIFICATIONS



SCALABLE AND SECURE ACCESS READER
By developing the Architect[®] innovative readers, STid has created the perfect blend of high security and scalability. The ARC-B is a secure RFID card reader with capacitive keypad.

EASY MANAGEMENT OF A MULTI-FACTOR IDENTIFICATION

Both reader and keypad, it allows a dual-identification by combining card and/or PIN code identifications. Thanks to its various operating modes (card AND key or card OR key), you can use the keypad to identify people or to activate additional functions (activation of the intrusion alarm...).

WELCOME TO HIGH SECURITY

The reader uses the latest MIFARE[®] DESFire[®] EV2 contactless chip technologies with new data security mechanisms:

- Secure Messaging EV2: secure transaction method based on AES-128 with protection against interleaving and replay attacks.
- Proximity Check: improved protection against relay attacks.

All public encryption algorithms can be used (3DES, AES, RSA, SHA, etc.), which are recommended by official data security agencies (such as the French national agency ANSSI).

The patented tamper protection system protects sensitive data and gives the possibility to delete the authentication keys. Unlike the current solutions on the market, the reliability of the accelerometer-based technology avoids it being outsmarted.

STANDING THE TEST OF TIME

Designed to push the boundaries, the reader has been developed to withstand harsh environments, to operate outside and to offer a high vandal proof resistance (IK08). It also has a reinforced structure to resist to physical attacks. Thanks to the capacitive technology, the keypad is sealed and protected from the accumulation of dirt. It also prevents the premature mechanical wear of keys, common on conventional keypads available on the market.

CREATE YOUR OWN SCALABLE CONFIGURATION

The Architect[®] readers are based on a smart common RFID core that can be connected to additional interchangeable modules: card reader, keypad, touch screen, biometrics, 125 kHz module... The easy and cost saving modularity concept allows you to keep control of the access security management.

SPECIFICATIONS

Operating frequency/Standards	13.56 MHz. ISO14443 types A & B, ISO18092 (NFC)																																
Chip compatibility	MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, MIFARE® DESFire®, MIFARE® DESFire® 256, EV1 & EV2, NFC (HCE), SMART MX, CPS3, PicoPass® (CSN only)*, iCLASS™ cards (CSN only)*																																
Functions	Read only: CSN, private ID (sector/file) or Secure Protocol (Secure Plus) / Secure Read Write																																
Communication interfaces & protocols	2 variants: - TTL/RS232 protocol: Data Clock (ISO2), Wiegand (ciphered mode Sx1) or RS232 (ciphered mode Sx2) - TTL/RS485 protocol: Data Clock (ISO2), Wiegand (ciphered mode Sx1) or RS485 (ciphered mode Sx3) with secure communication protocols SSCP & SSQP2 ; OSDP™ V1 (plain communication) & V2 (SCP secure communication) Compatible with EasySecure and EasyRemote (transparent) interfaces																																
Keypad	Sensitive / capacitive keypad - 12 backlit keys Functions: Card AND Key / Card OR Key Configuration by RFID card, software, external command (0V) or UHF technology according to the interface																																
Reading distances**	Up to 6 cm / 2.36" with a MIFARE® Classic EV1 card / Up to 4 cm / 1.57" with a MIFARE® DESFire® EV2 card																																
Integrated UHF chip	EPC1 Gen 2 for contactless reader configuration (protocols, LEDs, buzzer...)																																
Light indicator	2 RGB LEDs - 360 colors Configuration by RFID card, software, external command (0V) or UHF technology according to the interface																																
Audio indicator	Internal buzzer Configuration by RFID card, software, external command (0V) or UHF technology according to the interface																																
Power requirement	160 mA / 12 VDC max - 25% reduction in Energy-saving function																																
Power supply	7 VDC to 28 VDC																																
Connections	10-pin plug-in connector (5 mm / 0.2") / 2-pin plug-in connector (5 mm / 0.2"): O/C contact - Tamper detection signal																																
Material	ABS-PC UL-V0 (black) / ASA-PC-UL-V0 UV (white)																																
Dimensions (h x w x d)	107 x 80 x 26 mm / 4.2" x 3.14" x 1" (general tolerance following ISO NFT 58-000 standard)																																
Operating temperatures	- 20°C to + 70°C / - 4°F to + 158°F / Humidity: 0 - 95%																																
Tamper switch	Accelerometer-based tamper detection system with key deletion option (patented solution)																																
Protection / Resistance	IP65 Level - Weather-resistant with waterproof electronics (CEI NF EN 61086 certification) / IK08 reinforced vandal-proof structure High-resistant laser marking of keys																																
Mounting	Compatible with any surfaces and metal walls - Wall mount / Flush mount: - European 60 & 62 mm / 2.36" & 2.44" - American (metal/plastic) - 83.3 mm / 3.27" - External dimensions: 101.6 x 53.8 x 57.15 mm / 3.98" x 2.09" x 2.24" - Examples: Hubbel-Raco 674, Carlton B120A-UP																																
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Part numbers	<table border="0"> <tr> <td>CSN TTL Wiegand / Data Clock</td> <td>ARC-R31-B/103-xx/y</td> </tr> <tr> <td>Pre-configured - TTL Wiegand / Data Clock</td> <td>ARC-R31-B/PC1-xx/y</td> </tr> <tr> <td>Secure read only - TTL</td> <td>ARC-R31-B/PH5-xx/y</td> </tr> <tr> <td>Secure read only / Secure Plus - TTL</td> <td>ARC-S31-B/PH5-xx/y</td> </tr> <tr> <td>Secure read only - RS232</td> <td>ARC-R32-B/PH5-5AB/y</td> </tr> <tr> <td>Secure read only / Secure Plus - RS232</td> <td>ARC-S32-B/PH5-5AB/y</td> </tr> <tr> <td>Secure read only - RS485</td> <td>ARC-R33-B/PH5-7AB/y</td> </tr> <tr> <td>Secure read only / EasySecure interface - RS485</td> <td>ARC-R33-B/PH5-7AA/y</td> </tr> <tr> <td>Secure read only / Secure Plus - RS485</td> <td>ARC-S33-B/PH5-7AB/y</td> </tr> <tr> <td>Secure read only / Secure Plus / EasySecure interface - RS485</td> <td>ARC-S33-B/PH5-7AA/y</td> </tr> <tr> <td>Secure read only / EasyRemote interface - Transparent - RS485</td> <td>ARC-R33-B/PH5-7BB/y</td> </tr> <tr> <td>Secure read write - RS232</td> <td>ARC-W32-B/PH5-5AA/y</td> </tr> <tr> <td>Secure read write - RS485</td> <td>ARC-W33-B/PH5-7AA/y</td> </tr> <tr> <td>Secure read write SSCP2 CSPN compliant - RS485</td> <td>ARC-W33-B/PH5-7AD/y</td> </tr> <tr> <td>Read write CSN OSDP™ - RS485</td> <td>ARC-W33-B/103-7OS/y</td> </tr> <tr> <td>Secure read write OSDP™ - RS485</td> <td>ARC-W33-B/PH5-7OS/y</td> </tr> </table>	CSN TTL Wiegand / Data Clock	ARC-R31-B/103-xx/y	Pre-configured - TTL Wiegand / Data Clock	ARC-R31-B/PC1-xx/y	Secure read only - TTL	ARC-R31-B/PH5-xx/y	Secure read only / Secure Plus - TTL	ARC-S31-B/PH5-xx/y	Secure read only - RS232	ARC-R32-B/PH5-5AB/y	Secure read only / Secure Plus - RS232	ARC-S32-B/PH5-5AB/y	Secure read only - RS485	ARC-R33-B/PH5-7AB/y	Secure read only / EasySecure interface - RS485	ARC-R33-B/PH5-7AA/y	Secure read only / Secure Plus - RS485	ARC-S33-B/PH5-7AB/y	Secure read only / Secure Plus / EasySecure interface - RS485	ARC-S33-B/PH5-7AA/y	Secure read only / EasyRemote interface - Transparent - RS485	ARC-R33-B/PH5-7BB/y	Secure read write - RS232	ARC-W32-B/PH5-5AA/y	Secure read write - RS485	ARC-W33-B/PH5-7AA/y	Secure read write SSCP2 CSPN compliant - RS485	ARC-W33-B/PH5-7AD/y	Read write CSN OSDP™ - RS485	ARC-W33-B/103-7OS/y	Secure read write OSDP™ - RS485	ARC-W33-B/PH5-7OS/y
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DISCOVER OUR ARCHITECT® SCALABLE READER



*Our readers read only the iCLASS™ UID/Chip Serial Number. They do not read secure HID Global's iCLASS™ cryptographic protections.
**Caution: information about the distance of communication: measured from the center of the antenna, depending on the type of identifier, size of the identifier, operating environment of the reader, power supply voltage and reading functions (secure reading).

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