



INDALA[®]

Proven. Secure.



FLEXSECUR™

FLEXSECUR makes Indala's high-quality products the most secure proximity readers and cards available on the market today. **FLEXSECUR** technology provides an added level of access system security through a verification process at the reader. Solely an Indala feature, **FLEXSECUR** screens out unauthorized cards prior to sending programming data to the host system. This additional verification step enhances the security of your access system in three ways:

- The entire data field is scrambled prior to programming the card. Therefore, the data on the card cannot be decoded to determine the actual information on the card.
- The information on the card is locked and only the reader has the key to unlock this scrambled data. By matching the reader key with the lock, the programming data is translated for the host system. If the two do not match, the reader denies the user access, and does not send the invalid information to the host.
- Readers can be programmed for each site, protecting the end user by making each site unique for readers as well as cards. Again, only from Indala.

FLEXSECUR, the confidence of security between card and reader.



FLEXENTERPRISE™

FLEXENTERPRISE builds on the foundation of strength found in the **FLEXSECUR** technology. The **FLEXENTERPRISE** program is designed for end users seeking an additional level of security customized to fit their distinct security requirements. Highlights of the **FLEXENTERPRISE** program include:



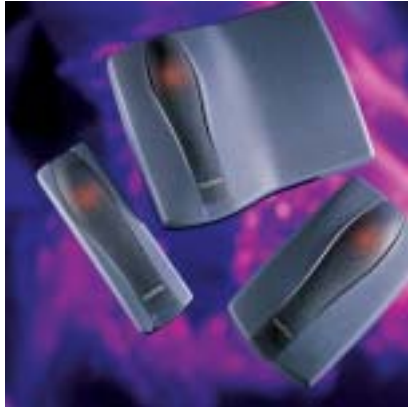
- Any card format can be made unique through the use of a **FLEXENTERPRISE** password
- Design a format that fits your organizational requirements, and register it as a **FLEXENTERPRISE** format
- The **FLEXENTERPRISE** program can also offer Security Integrators the ability to provide customers with a unique card that is exclusive to the end-user organization
- **FLEXENTERPRISE** card and reader formats are closely monitored to insure that only authorized individuals are able to obtain them for your facility

FLEXENTERPRISE allows company employees to carry one card for access control anywhere in the world.

**At Indala, we take your security seriously.
The FLEXENTERPRISE program exemplifies this commitment.**

**INDALA PROVIDES A COMPLETE PRODUCT PORTFOLIO WITH FLEXSECUR™ TECHNOLOGY -
THE CONFIDENCE OF SECURITY BETWEEN CARD AND READER.
SUPPORTED WITH INNOVATIVE DESIGN AND RESPONSIVE CUSTOMER CARE.**

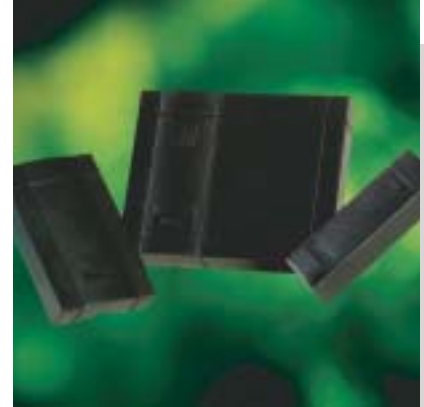
FlexPass™ Readers



FlexPass Wave



FlexPass Curve



FlexPass Arch



FlexPass Linear



FlexPass Keypad



FlexPass Long Range

FlexPass Credentials



FlexISO™, FlexKey™, FlexCard™

FlexPass Software



ProxSmith™ Programmer

FlexPass Smart Cards



FlexPass MIFARE®

READERS

SLIM



SLIM

The Slim Reader is ideal for mounting on door frames, and is suitable for both indoor and outdoor use. All Slim Readers feature FlexSecur technology, and are available in many innovative cover designs and colors.

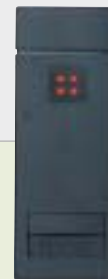
WAVE



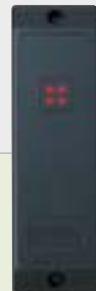
CURVE



ARCH



LINEAR



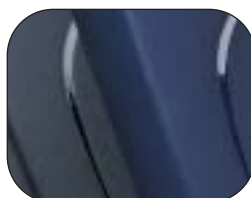
COLOR CHOICES

WAVE



Black Blue

CURVE



Black Blue

ARCH AND LINEAR



Black Grey White Beige

Dark Grey
(Background)

FLEXPASS™



SPECIFICATIONS

| | | |
|-------------------------------|--------------------------|---|
| Size: | Wave: | 5.5"H x 1.7"W x 1.1"T (14.0 cm x 4.3 cm x 2.8 cm) |
| | Curve: | 4.9"H x 1.7"W x 1.1"T (12.4 cm x 4.3 cm x 2.8 cm) |
| | Arch: | 4.5"H x 1.7"W x 0.8"T (11.4 cm x 4.3 cm x 2.0 cm) |
| | Linear: | 5.5"H x 1.7"W x 0.8"T (14.0 cm x 4.3 cm x 2.0 cm) |
| | Core Electronics Module: | 4.3"H x 1.5"W x .72"T (10.9 cm x 3.8 cm x 1.8 cm) |
| Read Range: | | Up to 5" (12.7cm) using FlexCard standard card |
| Input Voltage: | | 4-16 VDC at reader |
| Typical Current Draw: | | |
| | Off Metal: | 65 mA @ 12 VDC 86 mA @ 5 VDC |
| | On Metal: | 86 mA @ 12 VDC 97 mA @ 5 VDC |
| | Maximum: | 96 mA @ 12 VDC 100 mA @ 5 VDC |
| Operating Temperature: | | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | | Tri-color standard (red, green, amber) |
| Audio Tone: | | Standard, independently controllable (not tied to LED function) |
| Output Formats: | | Wiegand, ABA Track II Magnetic Stripe, and Serial TTL (requires use of BIL 232/422 Module) |
| Frequency: | | 125 kHz (excitation) |
| Read Time (26-bit): | | 200 ms (from read to data output) |
| Security: | | Various levels (configurable), FlexSecur |
| Programming: | | Factory or field programmable via FlexPass ProxSmith programmer and toolkit |
| Approvals: | | UL294/cUL, FCC Certification-United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand EMC |
| Other Features: | | SelfTest, QuickFlash, and WatchDog |

| Product Description | Package* Part # | Bezel Only Part # | CEM Only Part # |
|---------------------|--------------------|----------------------|--------------------|
| Wave, Slim, Black | FP1511A | FPZ-1511A | FPC-0500A |
| Wave, Slim, Blue | FP1514A | FPZ-1514A | FPC-0500A |
| Curve, Slim, Black | FP2511A | FPZ-2511A | FPC-0500A |
| Curve, Slim, Blue | FP2514A | FPZ-2514A | FPC-0500A |
| Arch, Slim, Black | FP3511A | FPZ-3511A | FPC-0500A |
| Arch, Slim, Grey | FP3515A | FPZ-3515A | FPC-0500A |
| Arch, Slim, White | FP3516A | FPZ-3516A | FPC-0500A |
| Arch, Slim, Beige | FP3517A | FPZ-3517A | FPC-0500A |
| Linear, Slim, Black | FP4511A | FPZ-4511A | FPC-0500A |
| Linear, Slim, Grey | FP4515A | FPZ-4515A | FPC-0500A |
| Linear, Slim, White | FP4516A | FPZ-4516A | FPC-0500A |
| Linear, Slim, Beige | FP4517A | FPZ-4517A | FPC-0500A |

*Packages include Core Electronics Module (CEM) and Bezel.

READERS

WALLSWITCH



WALLSWITCH

The Wallswitch Reader is similar in size to most USA switch plates, and can be mounted on a single gang box. The Wallswitch Reader is suitable for indoor and outdoor use. All Wallswitch readers feature FlexSecur technology, and are available in many innovative cover designs and colors.

WAVE



CURVE



ARCH



LINEAR



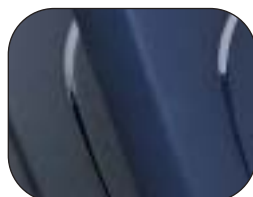
COLOR CHOICES

WAVE



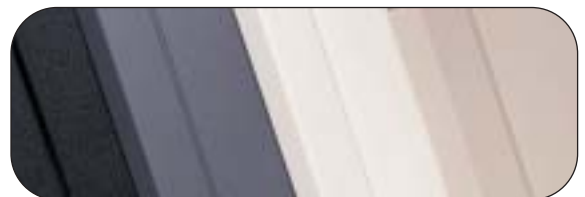
Black Blue

CURVE



Black Blue

ARCH AND LINEAR



Black Grey White Beige

Dark Grey
(Background)

FLEXPASS™



SPECIFICATIONS

| | |
|-------------------------------|---|
| Size: | Wave: 5.5"H x 3.3"W x 1.1"T (14.0 cm x 8.4 cm x 2.8 cm) Curve: 5.0"H x 3.8"W x 1.1"T (12.7 cm x 9.6 cm x 2.8 cm) Arch: 4.5"H x 3.0"W x 0.8"T (11.4 cm x 7.6 cm x 2.0 cm) Linear: 4.6"H x 3.0"W x 0.9"T (11.7 cm x 7.6 cm x 2.3 cm) Core Electronics Module: 4.3"H x 1.5"W x .72"T (10.9 cm x 3.8 cm x 1.8 cm) |
| Read Range: | Up to 5" (12.7 cm) using FlexCard standard card |
| Input Voltage: | 4-16 VDC at reader |
| Current Draw: | Off Metal: 65 mA @ 12 VDC 86 mA @ 5 VDC On Metal: 86 mA @ 12 VDC 97 mA @ 5 VDC Maximum: 96 mA @ 12 VDC 100 mA @ 5 VDC |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe, and Serial TTL (requires use of BIL 232/422 Module) |
| Frequency: | 125 kHz (excitation) |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |

| Product Description | Package* Part # | Bezel Only Part # | CEM Only Part # |
|---------------------------|-----------------|-------------------|-----------------|
| Wave, Wallswitch, Black | FP1521A | FPZ-1521A | FPC-0500A |
| Wave, Wallswitch, Blue | FP1524A | FPZ-1524A | FPC-0500A |
| Curve, Wallswitch, Black | FP2521A | FPZ-2521A | FPC-0500A |
| Curve, Wallswitch, Blue | FP2524A | FPZ-2524A | FPC-0500A |
| Arch, Wallswitch, Black | FP3521A | FPZ-3521A | FPC-0500A |
| Arch, Wallswitch, Grey | FP3525A | FPZ-3525A | FPC-0500A |
| Arch, Wallswitch, White | FP3526A | FPZ-3526A | FPC-0500A |
| Arch, Wallswitch, Beige | FP3527A | FPZ-3527A | FPC-0500A |
| Linear, Wallswitch, Black | FP4521A | FPZ-4521A | FPC-0500A |
| Linear, Wallswitch, Grey | FP4525A | FPZ-4525A | FPC-0500A |
| Linear, Wallswitch, White | FP4526A | FPZ-4526A | FPC-0500A |
| Linear, Wallswitch, Beige | FP4527A | FPZ-4527A | FPC-0500A |

*Packages include Core Electronics Module (CEM) and Bezel.

READERS

MID-RANGE



MID-RANGE

The Mid-Range Reader is designed for applications where a medium read range is required. The Mid-Range Reader can be mounted on both USA-style single and double gang back boxes, and is suitable for both indoor and outdoor use. All Mid-Range Readers feature FlexSecur technology, and are available in many innovative cover designs and colors.

WAVE



CURVE



ARCH



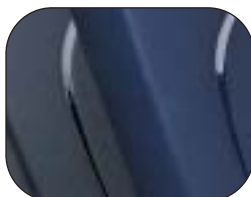
COLOR CHOICES

WAVE



Black Blue

CURVE



Black Blue

ARCH



Black Grey White Beige

Dark Grey
(Background)

FLEXPASS™



SPECIFICATIONS

| | |
|-------------------------------|--|
| Size: | Wave: 5.5"H x 6.4"W x 1.4"T (14.0 cm x 16.3 cm x 3.5 cm) Curve: 5.9"H x 6.2"W x 1.3"T (14.9 cm x 15.7 cm x 3.3 cm) Arch: 5.1"H x 6.1"W x 1.1"T (13.0 cm x 15.5 cm x 2.8 cm) Core Electronics Module: 5.0"H x 5.8"W x .85"T (12.7 cm x 14.7 cm x 2.2 cm) |
| Read Range: | Up to 12" (30.5 cm) using FlexCard standard card |
| Input Voltage: | 4-14 VDC at reader |
| Current Draw: | Off Metal: 70mA @ 12 VDC 117 mA @ 5 VDC On Metal: 65 mA @ 12 VDC 111 mA @ 5 VDC Maximum: 82 mA @ 12 VDC 140 mA @ 5 VDC |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe, and Serial TTL (requires use of BIL 232/422 Module) |
| Frequency: | 125 kHz (excitation) |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |

| Product Description | Package* Part # | Bezel Only Part # | CEM Only Part # |
|---------------------------------|-----------------|-------------------|-----------------|
| Wave, Mid-Range, Black | FP1231A | FPZ-1231A | FPC-0200A |
| Wave, Mid-Range, Blue | FP1234A | FPZ-1234A | FPC-0200A |
| Wave, Mid-Range, Black, Serial | FP1231S | FPZ-1231A | FPC-0200S |
| Wave, Mid-Range, Blue, Serial | FP1234S | FPZ-1234A | FPC-0200S |
| Curve, Mid-Range, Black | FP2231A | FPZ-2231A | FPC-0200A |
| Curve, Mid-Range, Blue | FP2234A | FPZ-2234A | FPC-0200A |
| Curve, Mid-Range, Black, Serial | FP2231S | FPZ-2231A | FPC-0200S |
| Curve, Mid-Range, Blue, Serial | FP2234S | FPZ-2234A | FPC-0200S |
| Arch, Mid-Range, Black | FP3231A | FPZ-3231A | FPC-0200A |
| Arch, Mid-Range, Grey | FP3235A | FPZ-3235A | FPC-0200A |
| Arch, Mid-Range, White | FP3236A | FPZ-3236A | FPC-0200A |
| Arch, Mid-Range, Beige | FP3237A | FPZ-3237A | FPC-0200A |
| Arch, Mid-Range, Black, Serial | FP3231S | FPZ-3231A | FPC-0200S |
| Arch, Mid-Range, Grey, Serial | FP3235S | FPZ-3235A | FPC-0200S |
| Arch, Mid-Range, White, Serial | FP3236S | FPZ-3236A | FPC-0200S |
| Arch, Mid-Range, Beige, Serial | FP3237S | FPZ-3237A | FPC-0200S |

*Packages include Core Electronics Module (CEM) and Bezel

NOTE: The Serial Mid-range reader outputs data in either a RS232 or RS422 in HEX, ASCII, or Decimal format. The Serial Mid-range reader works with the older ASP serial-formatted cards and readers.

KEYPAD READER



KEYPAD

The Keypad reader combines both a keypad and a proximity reader in a single attractive package designed to mount on a standard USA type single gang box. The keypad portion of the reader can transmit either buffered Wiegand data, or a 3 x 4 matrix output. The Keypad Reader features FlexSecur technology, and is available in either black or beige.



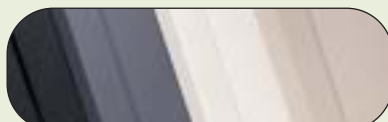
CLASSIC READER



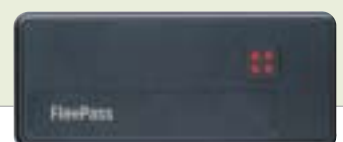
CLASSIC

The Classic Proximity Reader is uniquely designed to replace a Wiegand Reader. The dimensions are the same as the Classic Wiegand Swipe reader, and the mounting holes match up as well. The Classic Proximity Reader, with the FlexSecur technology, is ideal for transitioning existing Wiegand users to proximity.

COLOR CHOICES



Black Grey White Beige



KEYPAD SPECIFICATIONS

| | |
|-------------------------------|--|
| Size: | 4.5"H x 3.0"W x 0.7" (11.6 cm x 7.6 cm x 1.7 cm) |
| Read Range: | Up to 4" (10 cm) using FlexCard standard card |
| Input Voltage: | 4-16 VDC at reader |
| Current Draw: | Off Metal: 75 mA @ 12 VDC 95 mA @ 5 VDC On Metal: 89 mA @ 12 VDC 100 mA @ 5 VDC Maximum: 91 mA @ 12 VDC 100 mA @ 5 VDC |
| Operating Temperature: | -22°F to +149°F (-30°C to +65°C) |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe, and Serial TTL (requires use of BIL232/422 Module) |
| Frequency: | 125 kHz (excitation) |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |
| Part Numbers: | FP5061B Black (8 Bit Burst or Buffered) FP5067B Beige (8 Bit Burst or Buffered) FP5061M 3x4 Matrix, Black FP5067M 3x4 Matrix, Beige |

CLASSIC SPECIFICATIONS

| | |
|-------------------------------|--|
| Size: | 2.3"H x 5.3"W x 0.8" (5.8 cm x 13.5 cm x 2.0 cm) |
| Read Range: | Up to 5" (12.7 cm) using FlexCard standard card |
| Input Voltage: | 4-16 VDC at reader |
| Current Draw: | Off Metal: 65 mA @ 12 VDC 86 mA @ 5 VDC On Metal: 86 mA @ 12 VDC 97 mA @ 5 VDC Maximum: 96 mA @ 12 VDC 100 mA @ 5 VDC |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe, and Serial TTL (requires use of BIL 232/422 Module) |
| Frequency: | 125 kHz (excitation) |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |

| Product Description | Package* Part # | Bezel Only Part # | CEM Only Part # |
|------------------------|-----------------|-------------------|-----------------|
| Linear, Classic, Black | FP4551A | FPZ-4551A | FPC-0500A |
| Linear, Classic, Grey | FP4555A | FPZ-4555A | FPC-0500A |
| Linear, Classic, White | FP4556A | FPZ-4556A | FPC-0500A |
| Linear, Classic, Beige | FP4557A | FPZ-4557A | FPC-0500A |

*Packages include Core Electronics Module (CEM) and Bezel.

LONG RANGE READER



LONG RANGE

The Long Range Reader is ideal for parking applications, and situations that require longer read ranges. The Long Range Reader matches the Arch design, and is suitable for both indoor and outdoor applications. The Long Range Reader, with the FlexSecur technology, is fully compatible with all FlexPass cards, tags, and readers.



PROXSMITH



PROXSMITH

The ProxSmith Programmer is a powerful and flexible programming system conveniently packaged for simple use by security professionals. The ProxSmith Programmer enables the user to program FlexPass cards and readers. Users can create and manage their own card and reader formats. The ProxSmith delivers the high level of security that you have grown to expect from Indala.



LONG RANGE SPECIFICATIONS

| | |
|-------------------------------|---|
| Size: | 11.2"H x 11.2"W x 1.8"T (28.4 cm x 28.4 cm x 4.6 cm) |
| Read Range: | Up to 28 inches (71 cm) using the FlexCard standard card |
| Input Voltage: | 12-24 VDC |
| Current Draw: | Nominal/Maximum @ 12 VDC: 1.0A / 1.2A Nominal/Maximum @ 24 VDC: 750 mA / 900 mA |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | Oversize, tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe |
| Frequency: | 125 kHz or 133 kHz (excitation), manually selectable |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |
| Part Number: | ASR-620+ |

PROXSMITH SPECIFICATIONS

| | |
|-----------------------------------|---|
| Desktop Programmer Unit | |
| Size: | 3.9"H x 5.3"W x 1.4"T (10 cm x 13.5 cm x 3.5 cm) |
| Input Voltage: | 12 VDC |
| Power Supply: | |
| Input Voltage: | 0-240 VAC @ 47-62 Hz |
| Output Voltage: | 12 VDC @ 500 mA |
| Input Cord: | 6' (182cm)with standard NEMA 5-15 plug |
| Output Cord: | 6' (182cm)with 5-pin DIN connector |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| Input/Output Formats: | RS-232 |
| Frequency: | 125 kHz (excitation) |
| Software Toolkit on CD-ROM | |
| Minimum System Requirements | 486 PC or higher, running Windows® 2000, NT 4.0, or XP, 16 MB RAM, CD-ROM Drive |
| Part Number: | AFP-1000+ |

The FlexPass ProxSmith Programmer System comes complete with encoder hardware and a Windows-based software toolkit. The ProxSmith enables users to program and manage their own formats with up to 172 available user bits. The unique tools allow for programming formats, such as 26-bit Wiegand, and ABA Track II compliant magnetic stripe formats with as many as 40 numeric characters. Formats are encrypted "project" files allowing for easy return to the project when new cards or readers are required to be programmed.

The ProxSmith API (Application Programming Interface) is a software program that allows users to incorporate the ProxSmith software into additional OEM products. It is ideal for incorporation into use in badging printers and access control system host software.

READERS

LEGACY



LEGACY

The Legacy Mullion and Wallswitch readers are fully compatible with all FlexPass cards, tags, and readers. The Legacy readers also feature the FlexSecure technology.

MULLION

The Legacy Mullion Reader has been re-introduced to provide our long-standing users a mullion reader which matches the previously installed readers. The entire reader design is packaged in the bezel housing itself, and is suitable for both indoor and outdoor use. The Legacy Mullion Reader is also known as the ASR-503 Reader.



WALLSWITCH

The Legacy Wallswitch Reader provides our loyal customers a wallswitch reader which matches existing readers. The entire reader design is packaged in the bezel housing itself, and is suitable for both indoor and outdoor use. The Legacy Wallswitch Reader is also known as the ASR-505 Reader.



COLOR CHOICES



Black



Black

Beige

MULLION SPECIFICATIONS

| | |
|-------------------------------|--|
| Size: | 5.5"H x 1.7"W x 0.7"T (14.0 cm x 4.3 cm x 1.7 cm) |
| Read Range: | Up to 4" (10 cm) using FlexCard standard card |
| Input Voltage: | 4-16 VDC at reader |
| Current Draw: | Off Metal: 65 mA @ 12 VDC 85 mA @ 5 VDC On Metal: 76 mA @ 12 VDC 96 mA @ 5 VDC Maximum: 88 mA @ 12 VDC 100 mA @ 5 VDC |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe |
| Frequency: | 125 kHz (excitation) |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory only (field programmability not available) |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |

Part Number: ASR-503

WALLSWITCH SPECIFICATIONS

| | |
|-------------------------------|---|
| Size: | 4.5"H x 3.0"W x 0.7"T (11.4 cm x 7.6 cm x 1.7 cm) |
| Read Range: | Up to 4" (10 cm) using FlexCard standard card |
| Input Voltage: | 4-16 VDC at reader |
| Current Draw: | Off Metal: 70 mA @ 12 VDC 90 mA @ 5 VDC On Metal: 84 mA @ 12 VDC 100 mA @ 5 VDC Maximum: 89 mA @ 12 VDC 100 mA @ 5 VDC |
| Operating Temperature: | -31°F to +149°F (-35°C to +65°C) |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Audio Tone: | Standard, independently controllable (not tied to LED function) |
| Output Formats: | Wiegand, ABA Track II Magnetic Stripe |
| Frequency: | 125 kHz (excitation) |
| Read Time (26 bit): | 200 ms (from read to data output) |
| Security: | Various levels (configurable), FlexSecur |
| Programming: | Factory only (field programmability not available) |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Other Features: | SelfTest, QuickFlash, and WatchDog |

Part Numbers: ASR-505 Black
ASR-505 Beige

CREDENTIALS

FLEXPASS



FLEXCARD



FLEXISO



FLEXKEY



Please refer to the Credential Selection Guide in this brochure for available options.

The FlexCard Proximity card is ideal for applications which require a robust card that is flexible and light. Its vertical design is well suited for use as a badge, and the FlexCard can accept a variety of ID badge overlays. The FlexCard offers a lifetime warranty*, and is competitively priced.

The FlexISO Proximity Card is a credit card-thin access credential, which is ISO 7813 compliant with a nominal thickness of 0.03 inches (0.76mm). The FlexISO Proximity Card comes with a graphics quality surface on both sides of the card, and has the ability to contain multiple ID technologies in a single credential. The FlexISO Proximity Card can be combined with a magnetic stripe, Wiegand code strip, bar code, a multitude of smart chips, and MIFARE®.

The FlexKey's contemporary design enables it to be easily attached to a key ring, badge clip, or badge lanyard. Built to withstand harsh operating environments, FlexKey's rugged double-sealed construction also allows for customization. By adding a company logo, the FlexKey is ideally suited for vacation resorts, locker rooms, health spas, apartment buildings, club houses, as well as commercial offices where photo ID's are not required. The FlexKey offers a lifetime warranty.*

*See complete warranty statement for further details.

FLEXCARD SPECIFICATIONS

| | | |
|--------------------------|--|---------------------|
| Size: | 3.38"H x 2.13"W x 0.065"T (86 mm x 54 mm x 1.8 mm) | |
| Weight: | 0.4 oz (12g) | |
| Read Range: | | |
| Linear/Arch /Curve /Wave | Slim/Wallswitch | Up to 5" (12.7 cm) |
| Linear | Classic | Up to 4" (10 cm) |
| Arch /Curve /Wave | Mid-Range | Up to 12" (30.5 cm) |
| Long Range | ASR-620+ | Up to 28" (71 cm) |
| Temperature: | -22°F to +149°F (-30°C to +65°C) | |
| Slot Punch: | Vertical | |
| InkJet Marking: | Includes sales order number and ID number matching internal ID | |
| Coding: | Wiegand, ABA Track II Magnetic Stripe, and others available (exact coding standard, with no gaps or over-runs) | |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit | |
| Part Number: | FPCRD | |

FLEXISO SPECIFICATIONS

| | | |
|----------------------------------|--|----------------------------------|
| Size: | 3.38"H x 2.12"W x 0.03"T (86 mm x 54 mm x 0.76 mm) nominal | |
| Thickness: | may vary by +/-0.003" (0.08 mm) | |
| Weight: | 0.20 oz (6g) | |
| Read Range: | | |
| Linear/Arch /Curve /Wave | Slim/Wallswitch | Up to 5" (12.7 cm) |
| Linear | Classic | Up to 4" (10 cm) |
| Arch /Curve /Wave | Mid-Range | Up to 12" (30.5 cm) |
| Long Range | ASR-620+ | Up to 28" (71 cm) |
| Temperature: | Operating: | 32°F to +122°F (0°C to +50°C) |
| | Non-operating: | -20°F to +122°F (-30°C to +50°C) |
| Slot Punch: | Optional vertical or horizontal (locations indicated on card standard) | |
| InkJet Marking: | Includes sales order number and ID number matching internal ID | |
| Optional Magnetic Stripe: | Embedded 3-track high coercivity (2,750 oe) | |
| Coding: | Wiegand, ABA Track II Magnetic Stripe, and others available (exact coding standard, with no gaps or over-runs) | |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit | |
| Part Number: | FPISO | |

FLEXKEY SPECIFICATIONS

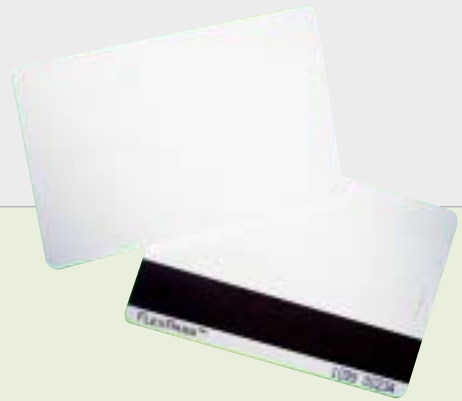
| | | |
|--------------------------|--|---------------------|
| Size: | 1.725"H x 1.197"W x .215"T (43.8 mm x 30.4 mm x 5.46 mm) | |
| Weight: | .191 oz (5.4 g) | |
| Read Range: | | |
| Linear/Arch /Curve /Wave | Slim/Wallswitch | Up to 2" (5.08 cm) |
| Linear | Classic | Up to 2" (5.08 cm) |
| Arch /Curve /Wave | Mid-Range | Up to 7" (17.8 cm) |
| Long Range | ASR-620+ | Up to 15" (38.1 cm) |
| Temperature: | 22°F to +149°F (-30°C to +65°C) | |
| InkJet Marking: | Includes sales order number and ID number matching internal ID | |
| Coding: | Wiegand, ABA Track II Magnetic Stripe, and others available (exact coding standard, with no gaps or over-runs) | |
| Programming: | Factory or field programmable via FlexPass ProxSmith programmer and toolkit | |
| Part Number: | FPKEY | |

SMART CARDS

M I F A R E



M I F A R E



Indala's affordable smart card reader/writer utilizes MIFARE® technology to read and write to contactless smart cards. Contactless smart cards are used for stored value or data applications, such as access control, vending, toll roads, airline ticketing, banking cards, city cards, ID cards, university cards, loyalty schemes, phone cards, park and ride, and prepaid metering.

Indala's Proximity and MIFARE contactless card combines smart card technology with the benefits of Indala's proven proximity technology. The card can be used for diverse applications such as access control, cashless vending, public transportation, airline ticketing, customer loyalty and photo ID cards. Sixteen securely separated data sectors enable multiple applications and support future growth.



SMART CARD APPLICATIONS WITH INDALA MIFARE

READER SPECIFICATIONS

| | |
|-------------------------------------|---|
| Size: | 4.70"H x 3.00"W x 0.68"T (11.9 cm x 7.6 cm x 1.7 cm) |
| Typical maximum* read range: | 1.5" (3.75 cm) *Depending on local installation conditions. |
| Input Voltage: | 9-14 VDC (16 VDC maximum) |
| Typical Current Draw: | 100mA @ 12 VDC (Linear power supply recommended.) |
| Operating temperature: | -22°F to 150°F (-30°C to 65°C) |
| Operating humidity: | 0-95% relative humidity non-condensing |
| LED Indicator: | Tri-color standard (red, green, amber) |
| Transmit frequency: | 13.56 MHz |
| Approvals: | UL294/cUL, FCC Certification - United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand/EMC |
| Cable distance: | Wiegand interface: 500 feet (150 m) RS-232 interface: 50 feet (15 m) Recommended cable is ALPHA 1299 C (22 AWG) 9-conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs. |
| Part Number: | MI7121 Black |

OCARD SPECIFICATIONS

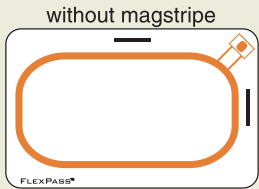
| | | | |
|----------------------------------|---|--|----------------------------|
| Size: | 3.38"H x 2.12"W x 0.03"T (86 mm x 54 mm x 0.76 mm) nominal | | |
| Read Range (MIFARE): | Up to 3.9" (10cm) | | |
| Read Range (Proximity): | Linear/Arch /Curve /Wave | Slim/Wallswitch | Up to 5" (12.7 cm) |
| | Linear | Classic | Up to 4" (10 cm) |
| | Arch /Curve /Wave | Mid-Range | Up to 12" (30.5 cm) |
| | Long Range | ASR-620+ | Up to 28" (71 cm) |
| RF Interface: | As suggested by ISO/IEC 14443, Type A | | |
| Transaction Time: | <100 ms typical | | |
| Baud Rate: | 106 KBPS | | |
| Memory size: | 1 Kbyte | | |
| Memory Type: | EEPROM, read/write | | |
| Multi-application Memory: | 16 sectors | | |
| Fixed Serial Number: | Unique, 32 bit | | |
| Write Endurance: | Min. 100,000 cycles | | |
| Data Retention: | 10 years | | |
| Part Numbers: | FPMIF | FlexISO Proximity and MIFARE Card | |
| | FPMSC | FlexISO Proximity, MIFARE, and Smart Card | |
| | MISMT | MIFARE and Smart Card | |
| | MIFARE | MIFARE Card | |

CREDENTIAL SELECTION GUIDE

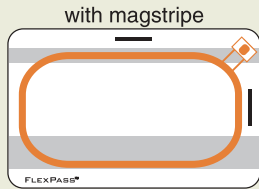
PROXIMITY CARD

Works with existing FlexPass proximity readers. Provides a migration path to a contact-based smart card system.

FlexISO (FPISO)

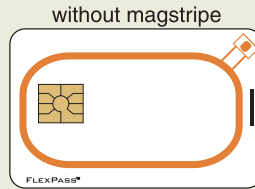


- 1. 125 kHz Proximity
- 2. Horizontal / Vertical

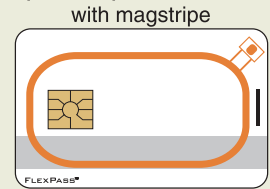


- 1. 125 kHz Proximity
- 2. Magnetic Stripe (optional)
- 3. Debitek Stripe (optional)

FlexISO-SMART (FPSMT)



- 1. 125 kHz Proximity
- 2. Contact Smart Chip (optional)

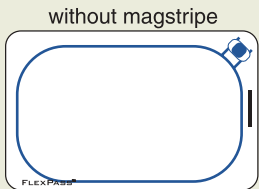


- 1. 125 kHz Proximity
- 2. Contact Smart Chip (optional)
- 3. Magnetic Stripe (optional)

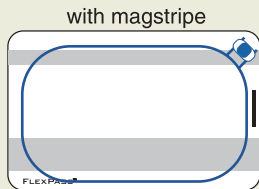
MIFARE® CONTACTLESS SMART CARD

Features 13.56 MHz MIFARE contactless smart card technology in various combinations with magstripe and contact smart chip module.

MIFARE

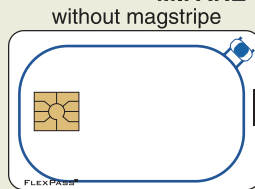


- 1. 13.56 MHz MIFARE contactless smart chip and antenna

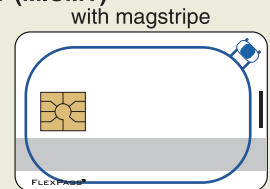


- 1. 13.56 MHz MIFARE contactless smart chip and antenna
- 2. Magnetic Stripe (optional)

MIFARE-SMART (MISMT)



- 1. 13.56 MHz MIFARE contactless smart chip and antenna
- 2. Contact Smart Chip (optional)

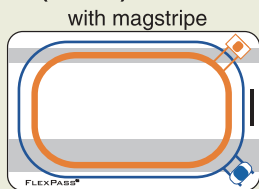
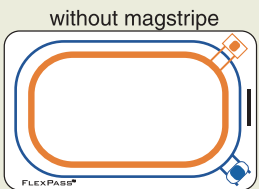


- 1. 13.56 MHz MIFARE contactless smart chip and antenna
- 2. Contact Smart Chip (optional)
- 3. Magnetic Stripe (optional)

PROXIMITY AND CONTACTLESS SMART CARD

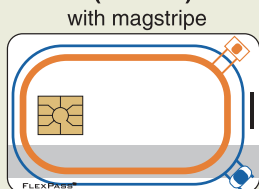
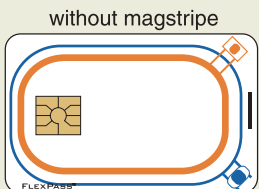
Works with existing FlexPass proximity and MIFARE contactless smart card readers. Provides a migration path to a smart card system.

FlexISO - MIFARE (FPMIF)



- 1. 13.56 MHz MIFARE contactless smart chip 125 kHz Proximity
- 2. Magnetic Stripe (optional)

FlexISO - MIFARE - SMART (FPMSC)



- 1. 13.56 MHz MIFARE contactless smart chip
- 2. 125 kHz Proximity
- 3. Contact Smart Chip (optional)
- 4. Magnetic Stripe (optional)

Legend



Contact smart chip module



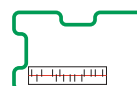
125 kHz proximity antenna and chip



13.56 MHz MIFARE contactless smart chip and antenna



Magnetic Stripe (1, 2 or 3 track, low or high coercivity, additional options available)



125 kHz proximity and Wiegand Code Strip



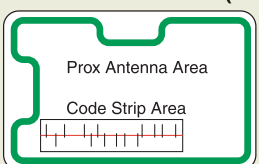
Durable PVC thin card with vertical or horizontal slot punch and high quality printing surface for photo ID and barcode. (ISO 7816 and 7810 compliant)

Note: Custom Graphics available upon request

PROXIMITY AND WIEGAND CARD

Works with existing FlexPass proximity and Wiegand readers.

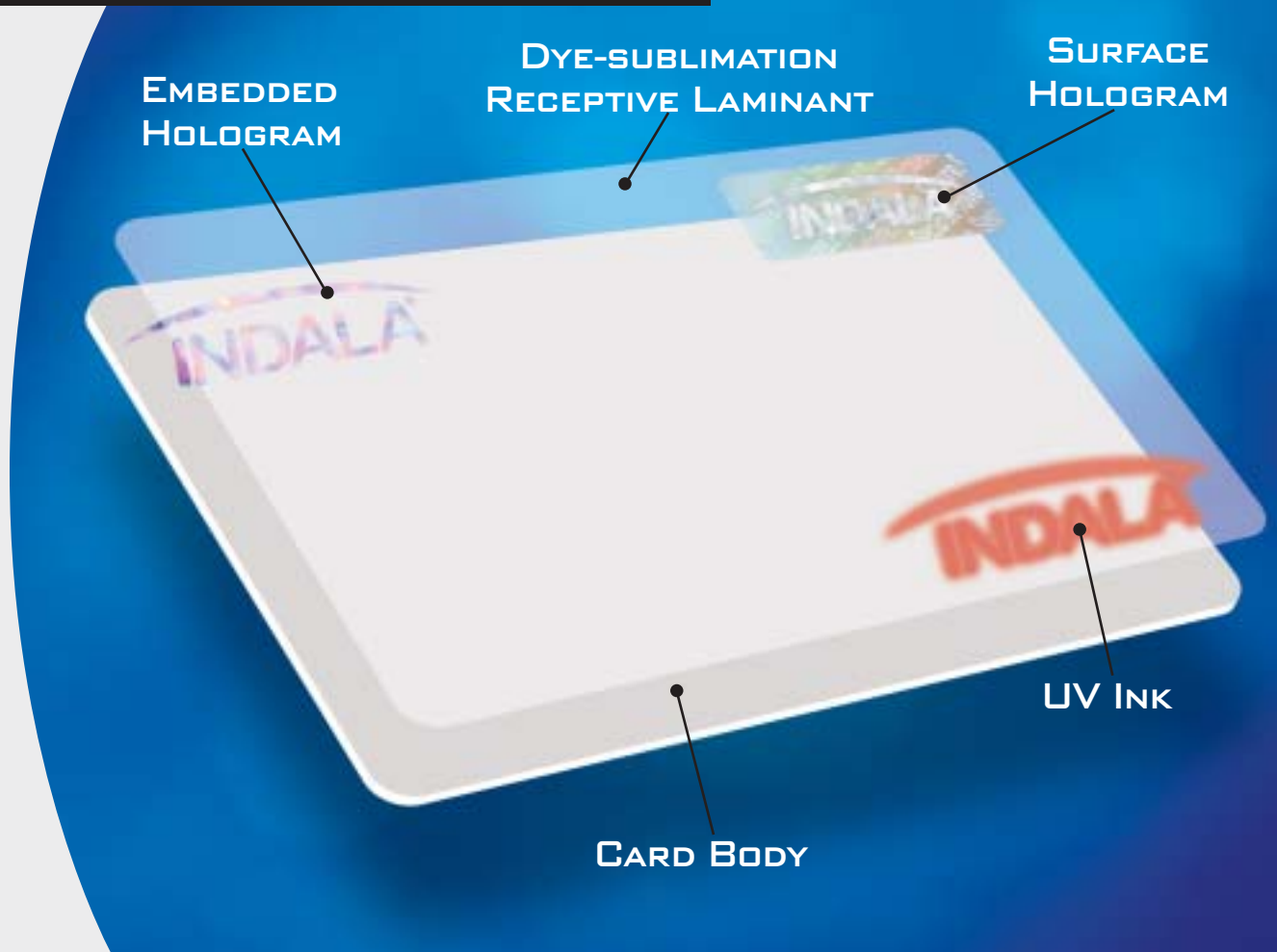
FlexISO-WIEGAND (FPWGD)



- 1. 125 KHz Proximity
- 2. Wiegand Code Strip

By selecting Indala FlexPass™ readers and cards with FlexSecur™ technology, the "inside" of your card is secure. Now it is important to consider the security on the outside of your card to protect it from counterfeiters. Providers of financial services such as MasterCard® and VISA® have been providing anti-counterfeiting protection on low technology (magnetic stripe) cards for years. In today's world, it just makes sense to economically add an additional security layer to the outside of your card.

FLEXPASS™ PREMIER



The FlexPass Premier cost-effectively provides customers with either a covert or overt anti-counterfeiting feature. Standard options include:

- **Ultra-violet (UV) Fluorescent Inks** are a covert anti-counterfeiting feature. Invisible to the naked eye, these inks can verify the authenticity of a card when placed under a black ultra-violet light.

To further enhance the security, Indala offers an ultra-violet fluorescent ink in a red pigment. Red pigments are considered to be more rare than the standard blue-violet fluorescing pigment, thus signifying a higher level of security.

- **Holograms** are an overt anti-counterfeiting measure. Widely accepted in the financial and banking world, holograms are easily recognizable by security personnel, allowing for quick identification of counterfeit cards.

Surface holograms are usually placed in one corner on the front of the card. Indala increases security by only offering custom holograms that can be registered. Registration restricts the hologram from being used by anyone but the registered owner, resulting in a higher level of security.

Embedded holograms are positioned underneath the clear outer layer of the card and are fully protected from surface abrasion. This technique also allows for full dye sublimation near and over the hologram image. (Note: due to the clear outer layer, embedded holograms are slightly less brilliant.)

Whichever anti-counterfeiting option you choose,
FLEXPASS™ PREMIER secures your card on the outside!



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Specifications subject to change without notice. Indala reserves the right to discontinue any product without notice. Read range stated when readers installed according to instructions. Read range may vary when mounted on metal and with different cover designs.

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