

# *InStar*/Indala Reader Compatibility

The MCR-403 InStar Proximity Reader is designed to read all of Indala's ASP formatted cards and tags, including the ASC-121T card, ISO-30 card, and ASK-116 key tag. The MCR-403 is also designed to read Keri's KC-26X/10X card, MT-26X/10X card, and PKT-26X/10X key tag. The MCR-403 can output card data in either the industry standard 26-bit Wiegand format, or in a "Pass Thru" 32-bit Wiegand format<sup>1</sup>.

Like Indala proximity readers, the MCR-403 uses "format matching" technology. This means that for correct card data output, the format of the card must be matched to that of the reader. The MCR-403 is matched to Indala's 26-bit Wiegand ASP formatted cards (card format number 40134) in its factory default format configuration.

When reading cards programmed with ASP formats other than the 26-bit Wiegand (including Keri - 10X formatted cards) it is recommended that the reader be placed in the Pass Thru format. This is done by presenting the Pass Thru Control Card (P/N 01842-003) to the reader. When the Pass Thru format is enabled, the reader will output any ASP formatted card's data in a single 32-bit Wiegand string. The 32-bit number outputted by the MCR-403 does not include parity, facility code, or site code, though the leading bit will always be set to "1." This Pass Thru format eliminates the potential for card code duplication on a site-by-site basis, and will require that the cards be individually enrolled into the access controller via a card presentation method.

Indala's proximity card and reader communications are based upon PSK or phase shift keying modulation. This type of modulation varies the phase of the card's return signal. As the MCR-403 uses PSK modulation, it will not read Keri's Pyramid Series Proximity line of OEM proximity readers, cards, and tags, or HID's proximity cards and readers. And due to data structure and frequency incompatibilities, the MCR-403 will not read Indala cards programmed with the ASP+, ECR, or ESP format structures.

Table 1 on page 2 provides a summary of *InStar* to Indala reader and credential compatibility.

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1. For further information on the Wiegand format, as well as details on the industry standard 26-bit Wiegand format, please see the Pyramid Series Wiegand Data Format Reference Document (P/N: 01846-002).



# InStar/Indala Reader Compatibility

**Table 1: InStar/Indala Compatibility Summary**

|  | Indala Format Structures      |  |      |     |     | Keri Format Structures      |                             |                          | HID             |
|--|-------------------------------|--|------|-----|-----|-----------------------------|-----------------------------|--------------------------|-----------------|
|  | ASP Standard                  | ASP Custom   | ASP+ | ECR | ESP | -26X Format                 | -10X Format                 | Pyramid Series Proximity | HID             |
| <b>MCR-403<br/>InStar<br/>Proximity<br/>Reader</b> | Yes<br>26-bit<br>Wiegand      | Yes <sup>a</sup><br>non 26-bit<br>Wiegand<br>formats | NO   | NO  | NO  | Yes                         | Yes <sup>a</sup>            | NO                       | NO <sup>b</sup> |
| <b>Credentials</b>                                 | ASC-12IT<br>ISO-30<br>ASK-116 | ASC-12IT<br>ISO-30<br>ASK-116                        | N/A  | N/A | N/A | KC-26X<br>MT-26X<br>PKT-26X | KC-10X<br>MT-10X<br>PKT-10X | N/A                      | N/A             |

- a. For non 26-bit Wiegand formats, place the MCR-403 into Pass Thru format. The MCR-403 will then output card data as a 32-bit string of Wiegand formatted data.
- b. For HID compatibility, use the Pyramid Series Reader with optional HID compatibility (e.g. P-300H).

