

# Insertion Card Readers

Insertion Magnetic Stripe Card Reader • 544  
 Insertion Card Reader with Keypad • 584

- ▶ Weatherproof housing design in an insertion-style reader or keypad for increased security
- ▶ Connects to access control systems with Wiegand or Clock-and-Data interface formats
- ▶ Reads security badges and time-and-attendance badges
- ▶ Read head assembly is adjustable to track location 1, 2, or 3
- ▶ Mounts on standard electrical boxes or wall



## ACCESS affordability.

The Dorado 544 is a proven performer installed at thousands of sites worldwide. From security access to process control applications, the Dorado 544 is the reader for projects when security cannot be compromised but where cost is an issue. The Dorado 544 is capable of reading tracks 1, 2, 3 and provides Wiegand 26-bit, 34-bit, all bits Wiegand, and Clock-and-Data outputs.

Dual-Technology readers - For the client who is migrating from magnetic stripe to the convenience of proximity, Dorado offers a unique reader that can process both types of cards in one unit. This allows the client to manage the greatest cost of conversion by eliminating rebadging the card population.

The Dorado 584 utilizes the same function and format as the 544 with the addition of a keypad. This feature provides an additional layer of security by linking the card to the assigned card holder. The keypad housing is weatherproofed for outdoor installations.

Both readers feature upward insertion from the bottom of the case to minimize the effects of dust, water, debris, and vandalism. They are available in either black or white with a bicolor LED (red/green) to indicate card read status.

The Dorado magnetic stripe security card is a low-cost token that can double as a photo identification badge by using a dye sublimation direct print version of the card. The cards can be triple encoded on separate tracks to allow use of the security cards for cafeteria, vending, or parking check-out. This feature will permit different expiration dates to be assigned for unrelated transactions. Card encoding and photo ID badging can be done at the customer's site or at the local dealer's facility when volume may not justify the cost of purchasing the encoding devices.

# Specifications

<b>Data Tracks</b>	Track 1, 2 & 3; high or low coercivity; 75 BPI	
<b>Card Size</b>	CR80 2.125" x 3.375" x.030" +/- .003" (54.0mm x 85.7mm x.762mm +/- .07mm)	
<b>Card Speed</b>	5 to 30 inches (203 to 1270mm) per second	
<b>Keypad</b>	Telephone arrangement outputting 8-bit burst	
<b>Data Rate</b>	1ms per bit	
<b>Approvals</b>	UL 294 Access Control; FCC Part 15, CE	
<b>Outline</b>	4.56" x 3.00" x 1.14" 115mm x 76mm x 29mm	
<b>Connections</b>	Plug-in with 8" (200mm) pigtail cable	
<b>Cable</b>	60m (200') on six #22 unshielded wires 150m (500') on six #18 unshielded wires	
<b>Output Formats</b>	26 or 34-bit Wiegand, all bits Wiegand, and Clock-and-Data	
<b>Power</b>	4.75 to 5.25VDC @ 35mA	
<b>Mounting</b>	Single-width handy box or directly on vertical surface	
<b>Lifetime</b>	250,000 wear cycles. MTBF 22,000 hours	
<b>Error Rate</b>	5% false reject 2x10 <sup>-6</sup> false accept	
<b>Static Discharge</b>	Withstands 20,000 volts	
<b>LED</b>	Red, Green	
<b>Material</b>	GE Lexan (polycarbonate) in white or black	
<b>Temperature</b>	-31° to 150° F (-35° to 66° C) operating	
<b>Humidity</b>	5 to 95%, noncondensing	
<b>Environment</b>	Indoor or outdoor; fully weatherproof housing	
<b>Card Format</b>	<b>EMPI</b> ANSI/ABA	<b>Output Format</b> 26 or 34-bit Wiegand All bits Wiegand or Clock-and-Data up to 37 characters
<b>10 Digit ANSI/ABA*</b>	26 or 34-bit Wiegand  * First five digits are site code, last five are card number Product Compatibility	

## Product Compatibility

Dorado 544 and 584 readers are compatible with mainstream access control panels that accept Wiegand or Clock-and-Data input and have the ability to read track 1, 2 or 3 with a Wiegand output.

## ID Card Compatibility

Dorado 544 and 584 readers are compatible with magnetic stripe cards encoded with the ANSI/ABA format or with HID's EMPI format, reading either track 1, 2, or 3. ANSI/ABA refers to the bank card encoding format commonly used for access, while EMPI is HID's secure coding format.

## Warranty

27-month limited warranty covering parts and labor. Magnetic stripe reader heads are not covered under this warranty; for complete details, please see HID's Sales Policy.

## How to Order

### Dorado 544W

Insertion Magnetic Stripe Card Reader  
Color: White  
Part Number: 3110-5440

### Dorado 544B

Insertion Magnetic Stripe Card Reader  
Color: Black  
Part Number: 3110-5441

### Dorado 584W

Insertion Card Reader with Keypad  
Color: White  
Part Number: 3110-5840

### Dorado 584B

Insertion Card Reader with Keypad  
Color: Black  
Part Number: 3110-5841

For complete details, please see HID's How to Order Guide found at [www.hidcorp.com/products/product-ordering-guide.html](http://www.hidcorp.com/products/product-ordering-guide.html).

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80% Recycled  
40% Post-Consumer Waste  
Processed Chlorine Free

MKT-MAG230/240\_DS\_EN



**ACCESS** experience.

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#### HID Global Offices:

**Corporate**  
**North America**  
9292 Jeronimo Road  
Irvine, CA 92618-1905  
U.S.A.  
Phone: (800) 237-7769  
Phone: (949) 598-1600  
Fax: (949) 598-1690

**Asia Pacific**  
19/F 625 King's Road  
North Point  
Island East  
Hong Kong  
Phone: +852 3160-9800  
Fax: +852 3160-4809

**Latin America**  
Circunvalacion Ote. #201 B  
Despacho 2  
Col. Jardines del Moral  
Leon 37160, Gto.  
Mexico  
Phone: +52 477 779 1492  
Fax: +52 477 779 1493

**Europe, Middle East & Africa**  
Homefield Road  
Haverhill, Suffolk  
CB9 8QP  
England  
Phone: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840