NexWatch

DigiReader® Series
Digital Proximity Readers

DR4200 SERIES DIGIREADERS

KEY FEATURES

- **Family of advanced digital proximity readers provide flexible, affordable, secure sentry options**
- **Choose the right model for specific applications:**
  - **- Mullion mount**
  - **- Glass mount**
  - **- Low-cost**
  - **- Integrated keypad**
  - **- Extended read range**
- **"Excellence in Design" winner from Applied Manufacturing and Business Week magazines**
- **Utilizes our most advanced Digital Signal Processing that meets or exceeds the most demanding low-power US, European and Asian Electro Magnetic Interference (EMI) regulations**
- **Three-color LED activity and programmable audible tones provide access status and communicates building security modes**
- **Hands-free technology with audible and visual tones make access easier for disabled, helps facilities comply with Americans with Disabilities Act**
- **Longest read ranges available for passive proximity**
- **Fast read times makes access convenient, keeps traffic moving**
- **Easy installation with industry standard, low-cost RS-485 wiring**
- **Will read HID digital cards to 43 bits**

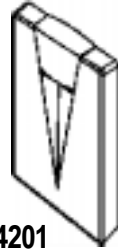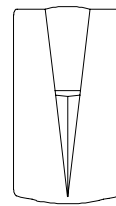The award-winning design of the DigiReader Series is merely the most obvious of the features that sets this powerful family of proximity credential readers apart from competition. Engineered and manufactured by the company that invented proximity access control, DigiReader Series Digital Proximity Readers (DigiReaders) use our most advanced Digital Signal Processing technology to generate the longest ranges available for passive proximity, and to assure fast and dependable reads that keep even the heaviest traffic moving quickly through secure areas.

DigiReader Series provides an impressive array of solutions to meet the access control needs of any facility, including: low-cost solutions that are priced competitively with less secure technologies; a DigiReader with an integrated keypad for added security; mullion mount and glass mount versions.

Along with providing true hands-free access, DigiReaders communicate cardholder access status and building security mode with programmable audible tones and tricolor lights; these features help facilities meet strict requirements of the Americans with Disabilities Act by making secure areas more access-friendly to disabled card holders.

DigiReader's advanced digital technology is reliable, difficult to compromise and exceeds the most demanding low-power US, European and Asian Electro Magnetic Interference (EMI) regulations. Like all of our access control products, DigiReader is built to last; special construction makes DigiReader nearly impervious to inclement weather and vandalism.

92995100012C

FEATURES AND SPECIFICATIONS

	DR4200K	DR4201	DR4203	DR4205 Series	DR4208	DR4220
Description	DS4205K look-alike, keypad only	Smallest reader for "light switch" type mountings	Digital proximity reader for door mullions	Different designs and mounting within series	Digital proximity reader w/ increased read range	Digital proximity reader with max. read range
Dimensions	5.0 x 5.0 x 1.3 in. / 12.7 x 12.7 x 3.2 cm	4.52 x 3.25 x 0.5 in. / 11.3 x 8.3 x 1.75 cm	7.5 x 1.9 x 1.2 in / 19 x 4.7 x 3.1 cm	5.3 x 5.74 x 1.27 in / 13.5 x 14.6 x 3.2 cm **DR4205K** 5.3 x 5.74 x 1.5 in./ 13.5 x 14.6 x 3.8 cm	5.3 x 5.74 x 1.27 in. / 13.5 x 14.6 x 3.2 cm	13.5 x 12 x 1.46 in. / 13.5 x 12 x 3.8 cm
Max. read range[1]	N/A	Up to 1.5 in. / 3.75 cm	Up to 3 in / 7.6 cm	Up to 4 in./ 10 cm	Up to 8 in. / 20 cm	Up to 20 in. / 50 cm
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	See chart below	Indoor / Outdoor	Indoor / Outdoor
Transmit frequency	N/A	140 kHz, full duplex operation				
Receiver frequency	N/A	70 kHz				
Receiver demodulation	N/A	Phase-shift key (PSK) signal				
Card read cycle[2]	N/A	Less than 1 sec.	100 msec			
Power source	16-28 VDC, less than 80 mA max. powered via S-Net twisted pair wire	17-28 VDC, 50 mA max. powered via S-Net twisted pair wire	12 – 28 VDC, less than 80mA. Powered via S-Net twisted pair wire			12 – 28 VDC, 0.6 amp nominal; Powered via S-Net twisted pair wire
Power dissipation	Less than 2 watts	Less than 1.4 watts	Less than 2 watts			Less than 17 watts
Interface to controller	All, except DR4205W: shielded 22 AWG, dual twisted pair, RS-485, S-Net communications. DR4205W only: 26- or 34-bit 5-wire Wiegand standard with NexSentry Wiegand Interface Unit required; See NexSentry WIU/DR4205W data sheet for details					
Indicators	Single tri-color with buzzer audio indicator (green – yellow – red)					
Tamper protection	Protected against address switch tampering					
Humidity	10 – 90% condensing			10 – 70% condensing **DR4205E:** 10 – 90% condensing	5 – 90% condensing	10 – 90% condensing
Temperature	-31º to 150º F / -35º to 66º C	-31º to 150º F / -35º to 66º C	-31º to 150º F / -35º to 66º C	19º to 150º F / -7º to 66º C **4205E:** -31º to 150º F/ -35º to 66º C	-31º to 150º F / -35º to 66º C	-4º to 140º F / -20º to 60º C
Weight	Less than 1 lb. / 454 gm.	4 oz. / 113.5 gm.	Less than 1 lb. / 454 gm.	Under 15 oz. / 425 gm.	1.5 lbs. / 681 gm.	Less than 5 lbs. / 2.3 kg.
Color	Charcoal					
ADA compliant	Special features for easing disabled access include: hands-free access, audible and visual indicators to indicate access status.					
HID Read (Reduced Range)	N/A	YES	N/A	N/A	YES	N/A
Order Number	92042000000	92042010000	92042030000	92042050000 E: 92042051000 GM: 92042053000 K: 92042052000 W: 92042054000 WE: 92042054100 WGM: 92042054300	92042081000	92042200000

[1] Maxium read range might vary depending on physical environment of installation. See "DigiReader / Credential Read range Matrix" for approximate read ranges with specific credentials.   [2] Using keys produced after 7/7/98
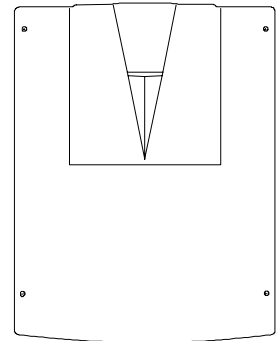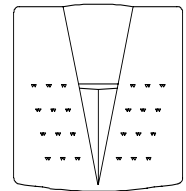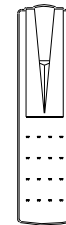
DR4201

DR4220

*   Not to scale, for appearance only.
    See "Features and Specifications"
    matrix for dimensions.

DR4203   DR4205/.08

DigiReader/Credential Read Range Matrix

	QuadraKey	NexKey	2Smart	KeyMate	HID / to 43 bit
DR4201	Up to 1.5 in / 3.75 cm	Up to 1.5 in / 3.75 cm	Up to 1.5 in / 3.75 cm	Up to 1 in / 2.5 cm	Up to 1.0 in
DR4203	Up to 3 in / 7.6 cm	Up to 3 in / 7.6 cm	Up to 3 in / 7.6 cm	Up to 1 in / 2.5 cm	N/A
DR4205	Up to 4 in / 10 cm	Up to 4 in / 10 cm	Up to 4 in / 10 cm	Up to 2 in / 5.0 cm	N/A
DR4208	Up to 8 in / 20 cm	Up to 8 in / 20 cm	Up to 8 in / 20 cm	Up to 4 in / 10 cm	Up to 1.5 in
DR4220	Up to 20 in / 50 cm	Up to 20 in / 50 cm	Up to 20 in / 50 cm	Up to 10 in. / 25 cm	N/A

ANSI-RAB ACCREDITED REGISTRAR

ISO 9001 Certified Manufacturer

NexWatch

Your Access to the Future