RP40 *multiCLASS*™

Multi-Technology Prox and *iCLASS* Reader

The RP40 is a multi-technology card reader designed for customers upgrading their current card system from HID Prox to iCLASS credentials. With the RP40 reader, the customer has the ability to transition to smart cards over time while incorporating the use of multiple card technologies within a single building or across multiple facilities.

Unlike contactless smart card serial number readers, with the RP40 multiCLASS™ reader, you get enhanced security through mutual authentication and data encryption.

Only the RP40 provides true iCLASS security, the ease of Prox, the power of smart cards and the confidence of choosing HID, the worldwide leader in access control.

Key Features:
- Reads HID Prox, iCLASS, DESFire™
  - ISO 15693 CSN (MyD, I Code, Tag It)
  - ISO14443A CSN (MIFARE®)
  - FeliCa™ CSN
- Provides flexible options for processing multi-technology cards
- Simple migration from HID Prox to iCLASS
- Same wiring connections and same card formats
- Ultra-low current consumption (80 mA)
- Larger voltage span (5-16 VDC)
- Corporate 1000 can be easily migrated

Unique Read Selection
- iCLASS Only – the reader will only read and output data from an iCLASS credential
- Prox Only – the reader will only read and output data from an Prox credential
- iCLASS Preferred – when a multi-technology card is presented, the reader will only read and output iCLASS data.
- Prox Preferred – when a multi-technology card is presented, the reader will only read and output Prox data
- Universal – when a multi-technology card is presented, the reader will read and output both iCLASS and Prox data with duplicate numbers suppressed.

Seamless Upgrade
- Same Prox reader features and format compatibilities
- Same iCLASS reader features and are interchangeable for reading iCLASS credentials.
- All Corporate 1000 formats can be migrated.
- For additional security, our Elite program is now available with iCLASS credentials.
- Wiegand output easily interfaces with existing Wiegand protocol access control panels.

iCLASS® by HID

Smart • Powerful • Trusted

iCLASS® RP40 multiCLASS™

Multi-Technology Proximity and iCLASS® Reader

Features

iCLASS Security
64-bit authentication keys are extremely secure. Readers and cards require matching keys to function. All RF data transmission between the card and reader is encrypted, using a secure algorithm. The key management system reduces the risk of compromised data or duplicated cards.

iCLASS Programming/Configuration
Key management is made easy! All cards are shipped with unique diversified keys, and readers are shipped with compatible keys. While cards and readers with Standard keys are interchangeable, the keys are highly secure. Custom site specific keys are available with our Elite program.

Easily Interfaced
The reader's Wiegand output easily interfaces with most existing Wiegand protocol access control panels. The reader reads standard HID format data and will output data as encoded. When reading MIFARE® cards, the reader can be configured to output 26-bit, 32-bit, 34-bit, 37-bit, 40-bit, or 56-bit Wiegand formats are based on the card serial number.

Card Compatibility
125 kHz Proximity
- HID proximity cards, key fobs, and tags.

13.56 MHz contactless smart cards
- ISO 15693 - read only; 2k bit (256 Byte) and 16k bit (2k Byte); serial number
- ISO 14443A - read only; MIFARE (serial number)
- ISO 14443B - read only; 2k bit (256 Byte) and 16k bit (2k Byte)

Audiovisual Indication
Audio sounder provides various tone sequences to signify access granted, access denied, power up and diagnostics. Visually impaired cardholders can easily distinguish between access granted and access denied. A high-intensity light bar provides a clear visual status indication in red, green or amber, even in bright sunlight.

Mounting
A three-part reader makes installation easier. Mounting plate attaches to U.S./EU/Asian back box, 52-60 mm screw hole spacing (vertical or horizontal), or to any flat surface. Reader body fits onto mounting plate. Cover fits over reader body, secured with a screw. An auto-tuning circuit provides consistent read ranges on various mounting surfaces with minimal reduction on metal surfaces.

Indoor/Outdoor Design
Rugged, weatherized polycarbonate enclosure, designed to withstand harsh environments, provides reliable performance and resistance to vandalism. A tamper switch in reader housing facilitates the notification of a tamper alarm.

Warranty
Warranted against defects in materials and workmanship for life. (See complete warranty policy for details.)

Part Numbers
Base Part Number: 6125

Specifications:

Typical Maximum Read Range*
2.5-3.5" (6.3-8.8 cm) ISOProx® II card
1.0-1.25" (2.5-3.2 cm) ProxKey® II keyfob
1.0 – 1.25" (2.5-3.2 cm) Microprox® Tag
3.5-4" (8.8-10 cm) iCLASS card
1.0"(2.5 cm) iCLASS Key
1.0" (2.5 cm) iCLASS Tag
2-2.5" (2.5-6.4 cm) with MIFARE® Card (serial number only)
*Using ISO 15693 mode (except MIFARE). Dependent upon installation conditions. Please note that all iCLASS credentials are available in either a 2k bit (256 Byte), 16k bit (2k Byte) or 32k bit (4k Byte) configuration.

Dimensions
3.30" x 4.80" x .85" (8.38 cm x 12.19 cm x 2.16 cm)

Material
UL94 Polycarbonate

Power Supply
5 - 16 VDC reverse voltage protected
Linear supply recommended

Current Requirements (Avg/Peak)
60/80 mA @ 12 VDC

Operating Temperature
-31º to 150º F (-35º to 65º C)

Operating Humidity
5% to 95% relative humidity non-condensing

Weight
8.8 oz (249.5 g)

Transmit Frequency
125 kHz & 13.56 MHz

Certifications
FCC Certification, Canada Certification
CE Mark (Europe), New Zealand, Australia c-Tick

Pending Certifications
UL 294/cUL, Taiwan, Singapore, Germany VdS

Cable Distance
Wiegand Interface - 500 feet (150 m)
Recommended cable is ALPHA 1295 (22AWG) 5-conductor stranded with overall shield or equivalent. Additional conductors may be required to connect all outputs.

Specifications subject to change without notice.

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