

SUBMITTAL REVIEW COMMENTS



PROJECT NAME: NOMC Endoscopy Suite Reno
TLA #: 23-262 SHEET #: 1 OF 21
RECEIVED DATE: 08/25/2025 REVIEWED DATE: 09/02/2025
REVIEWED BY: Avery Thomas
SUBMITTAL: Access Control

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED REJECTED

REVISE AND RESUBMIT SUBMIT SPECIFIC ITEM DO NOT RESUBMIT

Designer’s review is for general conformance with the design. Comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures therefrom. The contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, for adhering to plans and specifications, and for performing their work in a sage manner.

BY: Avery Thomas DATE: 09/02/2025

The following comments refer to submittals on the above referenced projects:

1. No comments.

END OF COMMENT

Submittal Cover Sheet

NORTH OAKS MED CENTER
ENDOSCOPY RENOVATION
WDB Job No. 5854



Submittal Number:

281300.1.1

Submittal Name:

ACCESS CONTROL SYSTEMS - PRODUCT DATA
(RESUBMITTAL)

WOODWARD DESIGN+ BUILD, LLC

FILE # 281300.1.1 DATE 08.25.2025
REVIEWED BY RG COMMENTS MADE YES NO
APPROVED FOR SUBMITTAL TO ARCHITECT YES NO

THIS SUBMITTAL HAS BEEN REVIEWED FOR GENERAL CONFORMANCE ONLY WITH CONTRACT DOCUMENTS; VENDOR IS RESPONSIBLE FOR ACCURACY IN ACCORDANCE WITH ALL CONTRACT DOCUMENTS.

Submittal Notes:

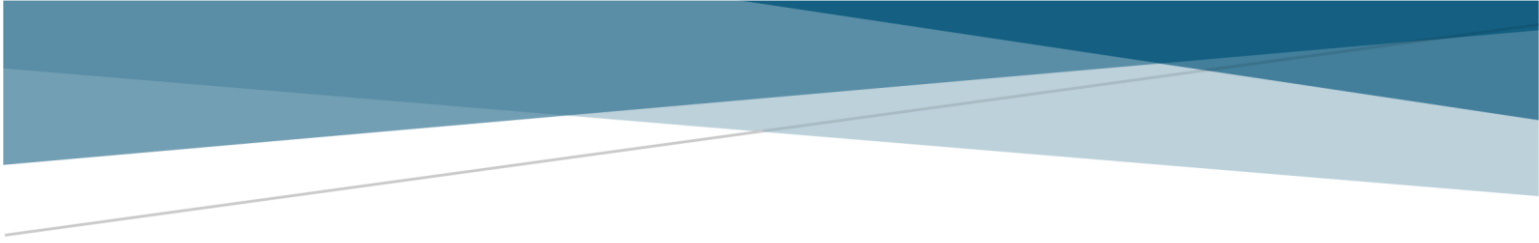
1) DESIGN TEAM, PLEASE ACCEPT THIS AS A COMPREHENSIVE ACCESS CONTROL PRODUCT DATA RESUBMITTAL.

2) PLEASE NOTE THE INFORMATION PROVIDED TO WDB FROM THE ELECTRICAL CONTRACTOR:

"THE ONLY PRODUCTS THAT WILL BE AVIGILON ARE THE POWER SUPPLY AND CONTROLLERS, AS AVIGILON DOES NOT MAKE THE OTHER ACCESSORIES (READERS AND MOTION SENSORS). HID AND CAMDEN ARE WHAT NORTH OAKS CURRENTLY HAS INSTALLED IN THEIR FACILITIES."

3) APPROVED FOR DESIGN TEAM REVIEW.

the only products that will be Avigilon are the power supply and controllers, as Avigilon does not make the other accessories (Readers and Motion Sensors). HID and Camden are what North Oaks currently has installed in their facilities.



NORTH OAKS MEDICAL CENTER
15790 PAUL VEGA MD DR.
HAMMOND, LA 70403

ENDOSCOPY RENOVATION
JULY 28, 2025

ACCESS CONTROL

IDN-ACME, INC.
1504 Justin Rd,
Metairie, LA 70433

W. WAYNE HILLIARD, A.H.C.
whilliard@idnacme.com
504-905-8075

Access Control

North Oaks Hospital
Endo Center

7/28/2025

Second Floor

Equipment 201 (not sure if access control equip is going in this room)

Avigilon:

1 each	AC-LSP-16DR-MER-LCK	Power Supply
1 each	AC-MER-CONT-MP1502	Access Controller
4 each	AC-MER-CON-MR52-53B	Door Controller

Corridor 210 7'4" x 7'0" **DOUBLE DOOR** **C**
 1 each HID Readers 40NKS 00 000000
 1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE 630 HG-305 X KMPSS X EL-12 X 83.125 OA
 EXIT DEVICE ED5470B X DEVICE ONLY X M92 X W048 X M55 X MELR

SVR 630

ELECTROMAGNETIC LOCK M680EBD 628
 AUTO OPERATOR AUTOMATIC OPERATOR
 DOOR POSITION SWITCH BK DPS-M-BK
 ACTUATOR 700
 WIRING HARNESS QC-C1500P
 WIRING HARNESS QC-C006P
 POWER SUPPLY AQD2

Ves. Bute 215 3'0" x 7'0" **???** **B**
 1 each HID Readers 40NKS 00 000000
 1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE HG-305 X KMPSS X EL-12 X 83.125 OA
 RIM EXIT DEVICE ED5200A X L9905ET
 DOOR POSITION SWITCH DPS-M-BK
 WIRING HARNESS QC-C1500P
 WIRING HARNESS QC-C006P
 POWER SUPPLY AQD

SOILED 219 4'0" x 7'0" **SINGLE** **A**

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE HG-305 X KMPSS X 83.125 OA
MORTISE LOCK ML2057 - LWA X CT7R 626
ELECTRIC STRIKE 1006CAS-12/24D-630
DOOR POSITION SWITCH BK DPS-M-BK
WIRING HARNESS QC-C1500P
POWER SUPPLY AQD1

CLEAN SUPPLY 221 3'0" x 7'0"

SINGLE

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE HG-305 X KMPSS X 83.125 OA
MORTISE LOCK ML2057 - LWA X CT7R 626
ELECTRIC STRIKE 1006CAS-12/24D-630
DOOR POSITION SWITCH BK DPS-M-BK
WIRING HARNESS QC-C1500P
POWER SUPPLY AQD1

Semi restricted Corridor 230a

7'4" x 7'0"

DOUBLE

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE 630 HG-305 X KMPSS X EL-12 X 83.125 OA
EXIT DEVICE ED5470B X DEVICE ONLY X M92 X W048 X M55 X MELR
SVR 630
ELECTROMAGNETIC LOCK M680EBD 628
AUTO OPERATOR AUTOMATIC OPERATOR
DOOR POSITION SWITCH BK DPS-M-BK
ACTUATOR 700
WIRING HARNESS QC-C1500P
WIRING HARNESS QC-C006P
POWER SUPPLY AQD2

MEDS 231

3'0" x 7'0"

SINGLE

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

ELECTRIC STRIKE 1006CAS 12/24D 630
DOOR POSITION SWITCH DPS M BK
WIRE HARNESS QC C1500P
POWER SUPPLY AQD1

ENVIR. SERVICE 237

4'0" x 7'0"

SINGLE

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE HG-305 X KMPSS X 83.125 OA
MORTISE LOCK ML2057 - LWA X CT7R 626
ELECTRIC STRIKE 1006CAS-12/24D-630
DOOR POSITION SWITCH BK DPS-M-BK
WIRING HARNESS QC-C1500P
POWER SUPPLY AQD1

CONSULT 238b

3'0" x 7'0"

SINGLE

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

ELECTRIC STRIKE 1006CAS 12/24D 630
DOOR POSITION SWITCH DPS M BK
WIRE HARNESS QC C1500P
POWER SUPPLY AQD1

Corridor 252

7'4" x 7'0"

???

1 each HID Readers 40NKS 00 000000
1 each Camden Motion Sensor CMRQE70A

Supplied and installed by others:

CONTINUOUS HINGE 630 HG-305 X KMPSS X EL-12 X 83.125 OA
EXIT DEVICE ED5470B X DEVICE ONLY X M92 X W048 X M55 X MELR
SVR 630
ELECTROMAGNETIC LOCK M680EBD 628
AUTO OPERATOR AUTOMATIC OPERATOR
DOOR POSITION SWITCH BK DPS-M-BK
ACTUATOR 700
WIRING HARNESS QC-C1500P
WIRING HARNESS QC-C006P
POWER SUPPLY AQD2



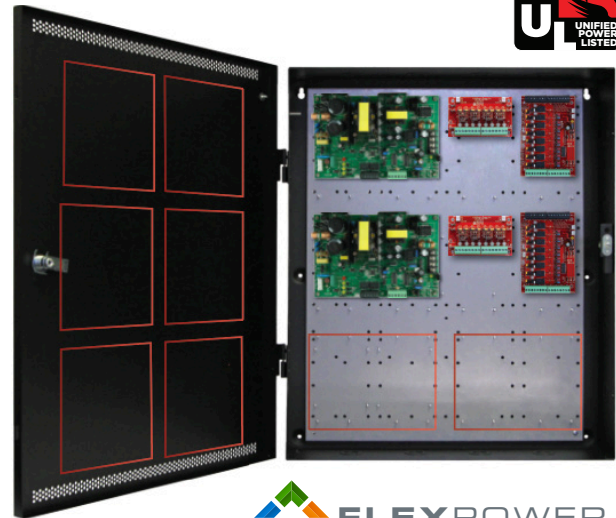
Overview

MCLASS™ Unified Power Systems combine FlexPower® power modules alongside Mercury Security™ access hardware in one compact and secure UL Listed solution.

This unit is a 12V and 24V DC dual voltage access power system.

Two C8 lock control modules provide sixteen access control inputs capable of voltage or dry contact activation, and sixteen outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. Two D8P modules provide sixteen auxiliary class 2 outputs and each output is configurable for 12 or 24VDC operation.

MCLASS enclosures are painted steel with removable backplate and include lock, two (2) keys and tamper switch.



System Features

- ◆ **FPO offline power supply**
 - 120 or 230 VAC input
 - 12 and 24 VDC outputs
 - On board Fire Alarm Interface
 - Continuous and resettable DC
- ◆ **Distributed outputs**
 - Sixteen auxiliary, class II power limited at 2.5A each
 - Sixteen controlled, fused at 3A each
- ◆ **Expansion options**
 - Increased power, multiple voltages
 - Additional distribution outputs
 - Network monitoring and reporting
- ◆ **Lifetime Warranty**

Enclosure Features

- ◆ **Labor saving design**
 - Pre-wired power section
 - Pre-punched knockouts
 - Removeable backplate simplifies installs
 - Pre-defined hole pattern for power section
 - Access panels mount on threaded standoffs - no drilling required
- ◆ **Additional benefits**
 - Wire management room
 - 4.5" enclosure depth fits battery set
 - Tamper switch, lock, dual key set standard
 - Mounting hardware for access boards included

Ordering

FP0150/250-2C82D8PE4M1

Description

400W (12V & 24V) 16 lock, 16 aux outputs

Specifications

Input Power	Input 120/230 VAC 50/60 Hz 452 Watts Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Output Power	FP0150: 12V/12A or 24V/6A 150 Watts FP0250: 12V/20A or 24V/10A 250 Watts Outputs: Continuous (DC1) Resettable (DC2) 16 control outputs, fused at 3A each 16 auxiliary outputs, class II power limited at 3A each 120 mV output voltage ripple System Efficiency: 87% System BTU Rating: 175 BTU/Hr
Battery Charging	Independent built-in 2A charger for sealed lead acid or gel type batteries Microprocessor dual rate charging of 12 or 24 V battery sets Charges up to 80Ah battery sets within UL limit Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup
Supervision	AC Fail (form "C" contacts) System Fault (form "C" contacts) may be triggered by low/no battery, short to earth ground, power supply failure or blown fuse
Visual Indicators	AC input, DC1 and DC2 output System fault AC fault Short to earth ground Reverse battery polarity Fire Alarm Input activated C8: DC input / output and Fault D8P: DC outputs
Regulatory Compliance	UL294, UL603, UL1076, ULC S318, ULC S319
Mercury/LSP	CSA C22.2 #107.1, CSA 22.2 #60950
Joint Listing	CSFM / FCC Part 15, Subpart B CE
Enclosure Dimensions	Size: 24.00H x 20.00W x 6.50D in. (61.00 x 50.00 x 11.50 cm) Weight: 25 lbs.
Access Panel Mounting	LP1501, LP1502, LP4502, LP2500, MR50, MR51e, MR52, MR16, LNL-500, 1100, 1200, 1300, 1320, 2000, 2210, 2220, 3300



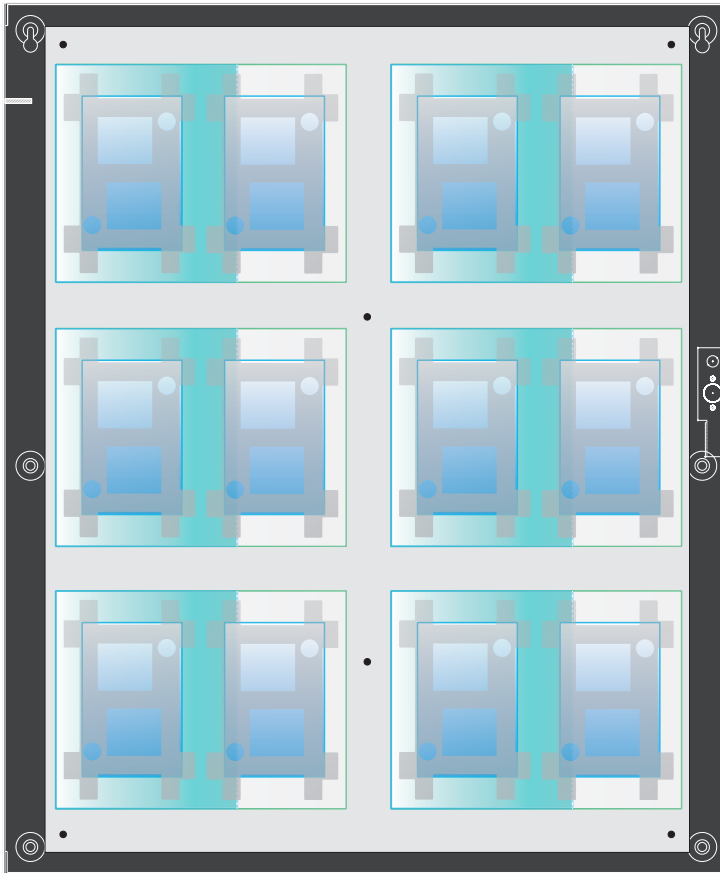
Universal Mercury Mounting Pattern

E4M

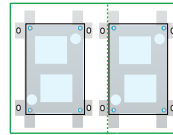
Mercury	Slots w/Power	Slots all Mercury
MR52 / LPxx	4	6
MR16in / MR16out	4	6
LP2500 / MUX8	4	6
LP1501 / MR51e	8	12
MR50	8	12

E4M1 (adds six MR door panels)

Mercury	Slots w/Power	Slots all Mercury
MR52 / LPxx	10	12
MR16in / MR16out	10	12
LP2500 / MUX8	4	6
LP1501 / MR51e	8	12
MR50	8	12

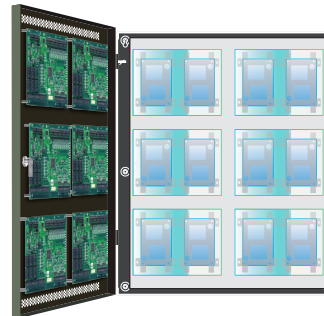


UNIVERSAL MERCURY PATTERN
all boards each slot

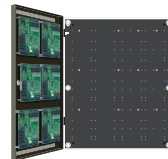


- (1) MR52 / LP1502
- (1) LP2500
- (2) LP1501 / Mr51E
- (2) MR50

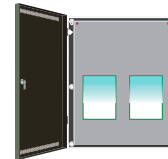
E4M1 EXPANDS SIX MR52 TO DOOR



E4M2 ON DOOR ONLY



E4M2 TWO VERTICAL



LifeSafetyPower.com

(888) 577-2898
info1@lifesafetypower.com

Specifications subject to change without notice.

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P01-685A 06/22

LifeSafety Power, Inc.
10027 S 51st Street, Suite 102
Phoenix, AZ 85044 USA

HID[®] Signo[™] Readers

Models: 20, 40, 20K, 40K, 40T

The signature line of readers from HID

HID Signo[™] is the signature line of physical access control readers from HID. The versatility, performance and connected capabilities of HID Signo readers set a new industry benchmark for the most highly adaptable, interoperable and secure approach to electronic access control.

Offering an unparalleled breadth of functionality, HID Signo affords security system installers and administrators a simple and effective approach to secure access control for almost any scenario.

With support for the widest array of credential technologies — past, present and future — HID Signo is the perfect choice for those looking to make the transition to a secure authentication technology.

HID Signo readers transcend the traditional approach to security by being designed to be connected and managed remotely without needing to physically touch each device. This functionality empowers access control systems to dynamically respond as new needs, configurations or threats arise.

POWERFULLY SECURE

- Multi-Layered security to ensure data authenticity and privacy
- EAL5+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports iCLASS Elite[™] and Corporate1000 Programs

MEET EVERY NEED, ADAPT TO ANY SITUATION

- Go mobile with native Bluetooth and NFC support
- Integrated 125 kHz credential read support for easy migration
- Supports over 15 common credential technologies
- Flush mount terminal block and pigtail wiring options
- Robust outdoor performance with an IP65 rating

MANAGE, UPGRADE AND CONFIGURE

- Easily and securely managed using HID Reader Manager[®]
- Configure via a mobile device or OSDP
- Update firmware in response to threats
- Personalize by configuring audio visual or keypad settings
- Deactivate legacy credential technology to conclude secure migration



KEY BENEFITS:

- **Highly Versatile** — Support for the widest range of credential technologies, including HID Mobile Access[®] via native Bluetooth and Near Field Communication (NFC).
- **Enhanced Performance** - Storage of cryptographic keys on certified secure element hardware, plus a new surface detection feature that enables the reader to automatically recalibrate and optimize read range performance.
- **Connected to the Future** — All readers include out-of-the-box support for Open Supervised Device Protocol (OSDP) for secure bidirectional communication.

READY FOR THE FUTURE NOW

- Mobile-ready by default, including Apple's Enhanced Contactless Polling (ECP) to support credentials in Apple Wallet
- Sleek, innovative design to suit modern architecture
- Integrated OSDP for secure authentication and configuration post installation
- Built on a hardware platform designed to be adaptable to support future technology
- Designed to seamlessly integrate into the HID Origo[®] ecosystem

HID Signo Reader Model	20	20K	40	40K	40T
2.4 GHz (Bluetooth) Credential Compatibility	Mobile Credentials powered by Seos® (HID Mobile Access)				
13.56 MHz (NFC) Credential Compatibility	Seos®, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2/EV3, FeliCa™ & Contactless e-Purse Application Specification (CEPAS), Mobile Credentials powered by Seos (HID Mobile Access)				
125 kHz Credential Compatibility	HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity				
Typical Read Range¹	Seos, iCLASS® SE™, iCLASS® SR, iCLASS, MIFARE Classic, MIFARE DESFire EV1/EV2/EV3 & ISO14443A Single Technology Cards – 1.6 to 4 in (4 to 10 cm) ; HID / AWID Proximity®, Indala Proximity®, EM Proximity & 125 kHz Single Technology Cards – 2.4 to 4 in (6 to 10 cm)				
Mounting	Suited for mullion-mount door installations or any flat surface mounting		Suited to mount and cover single gang switch boxes with a slotted mounting plate for alternate back-box spacing		
Color	Black bezel with silver trim baseplate ²				
Keypad	No	Yes (2 x 6 layout)	No	Yes (3 x 4 layout)	
Dimensions (width x length x depth)	1.77 in x 4.78 in x 0.77 in (45 mm x 121.5 mm x 19.5 mm)	1.78 in x 4.79 in x 0.85 in (45 mm x 121.5 mm x 21.5 mm)	3.15 in x 4.78 in x 0.77 in (80 mm x 121.5 mm x 19.5 mm)	3.16 in x 4.79 in x 0.85 in (80 mm x 121.5 mm x 21.5 mm)	3.16 in x 4.82 in x 0.89 in (80mm x 122.5mm x 22.5mm)
Product Weight	Pigtail: 3.35 oz (95 g) Terminal: 2.65 oz (75 g)	Pigtail: 3.88 oz (110 g) Terminal: 3.17 oz (90 g)	Pigtail: 4.94 oz (140 g) Terminal: 4.23 oz (120 g)	Pigtail: 5.64 oz (160 g) Terminal: 4.94 oz (140 g)	5.82 oz (165g) Terminal Only
Operating Voltage³	12V DC				
Current Draw⁴	NSC ⁵ : 60 mA Peak ⁶ : 250 mA Max. Avg: 70 mA IPM ⁷ : 45 mA	NSC ⁵ : 65 mA Peak ⁶ : 250 mA Max. Avg: 75 mA IPM ⁷ : 48 mA	NSC ⁵ : 65 mA Peak ⁶ : 250 mA Max. Avg: 75 mA IPM ⁷ : 45 mA	NSC ⁵ : 70 mA Peak ⁶ : 250 mA Max. Avg: 80 mA IPM ⁷ : 55 mA	NSC ⁵ : 90mA Peak ⁶ : 250mA Max Avg: 120mA IPM ⁷ : 75mA
Device Input and Output	Input: Tri-color LED, Buzzer, Hold @ Active Low Output: Tamper Relay 0-60V DC @ 100mA Max (Dry Contact)				
Operating Temperature & Humidity	-31° F to +150° F (-35° C to +66° C) 0% to 95% non-condensing				
Storage Temperature	-40° F to +185° F (-40° C to +85° C)				
Environmental Rating	UL294 Outdoor and Indoor rated, IP65				
Transmit Frequency	125 kHz, 13.56 MHz, and 2.4 GHz				
Communications & Panel Connection	Wiegand, Clock-and-Data and RS-485 Half Duplex (OSDP) via Pigtail (18 in / 0.5 m) or Terminal Strip ⁸				
Device Management	HID Reader Manager / OSDP configuration				
Certifications	UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), MIC/Giteki (Japan) WPC/BIS (India), KCC (Korea), NCC (Taiwan), iDA (Singapore), MIC (Japan), RoHS, GreenCircle, Bluetooth SIG, and additional regions. www.hidglobal.com/certifications				
Security Ratings	EAL 5+ Certified Secure Element Hardware				
Patents	www.hidglobal.com/patents				
Housing Materials	Polycarbonate – UL94 V0				
UL Reference Number	20	20K	40	40K	40T
Warranty	Limited Lifetime				

- Read range listed is statistical mean rounded to nearest centimeter increment for ID-1 or clamshell credentials. HID Global testing occurs in open air. Form factor, technology and environmental conditions, including metallic mounting surface, can degrade read range performance; plastic spacers are recommended to improve performance on metallic mounting surfaces.
- Black spacers available as an additional accessory at an additional cost.
- Measured in accordance with UL294 standards at +10% and -15% of rated voltage input
- Measured in accordance with UL294 standards; see Installation Guide for details.
- NSC — Normal Standby Current; see Installation Guide for details.
- Peak measures in default condition.
- Intelligent Power Management (IPM) — Reduces reader current consumption up to 43%, based on model, compared to standard operating mode.
- 40T orderable only at Terminal Strip connection type.



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +353 91 506 900

Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108

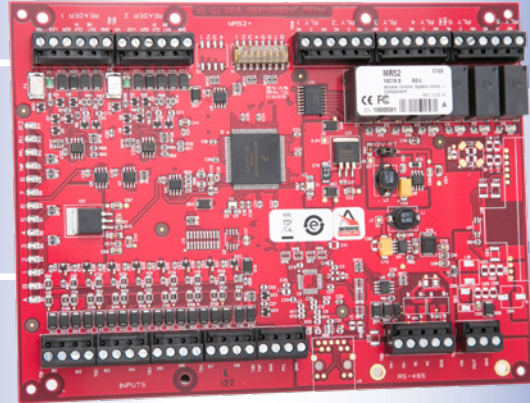
For more global phone numbers click here

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2024-05-28-pacs-signo-reader-family-ds-en_PLT-04831

Part of ASSA ABLOY

HID[®] Mercury[™] MR52-S3 Controller



FEATURES

- AES 128/256 bit data encryption
- HSPD-12/FIPS201 compliant
- UL 294 recognized, CE compliant, FCC, RoHS
- Supports OSDP, OSDP Secure Channel, FICAM government profiles, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader technologies
- RS-485 host connectivity

SERIAL I/O DUAL CARD READER INTERFACE

- **Open Architecture** - High performance, reliable platform enables use of hardware with HID Mercury OEM partners' software solutions
- **OSDP Protocol** - Supports OSDP and Secure Channel protocol for device connectivity, file transfer and extended applications such as biometrics and federal government profile support
- **Enhanced Security** - Embedded crypto memory chip provides secured layer of encryption to protect sensitive data
- **Versatile Interoperability** - Same reliable interface and identical footprint as the Series 2 HID Mercury IO modules, enabling seamless upgrades for existing deployments

The HID Mercury MR Series 3 Serial Input/Output (SIO) modules enable system expansion of HID Mercury intelligent controllers as part of HID Mercury's distributed architecture. The enhanced modules offer an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data. Built on the HID Mercury open platform, Series 3 modules provide the necessary flexibility for OEMs, channel partners and end customers to choose the controller configuration that best fits their needs.

The MR52 Series 3 is a card reader interface panel with on-board flexibility to connect a wide range of security devices. The MR52 is easy to install and provides the required I/O for interfacing two card readers, eight general-purpose input monitor points and six control relays to any HID Mercury series intelligent controller.

With two-wire RS-485 connectivity, the MR52's two reader ports support OSDP, OSDP Secure Channel, FICAM government profiles, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader

technologies. System configuration and setup are provided through HID Mercury OEM partner software applications.

The MR52 Series 3 is the latest generation door interface module for HID Mercury intelligent controllers, the platform of choice for customers seeking open architecture access control solutions.

Application Notes

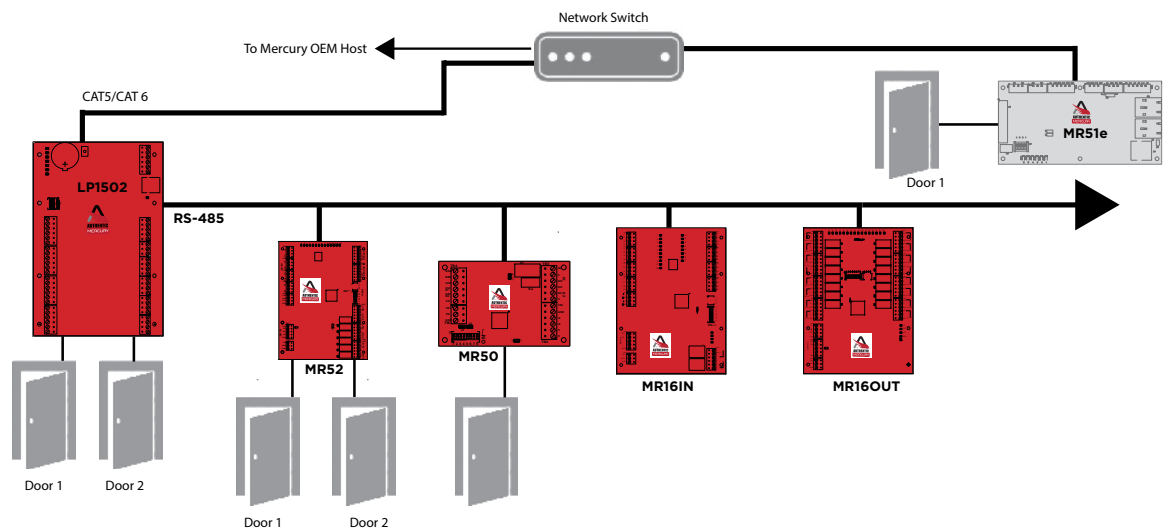
The inputs and the relays may be assigned to door-related functions or to general-purpose I/O. The inputs support normally open, normally closed, supervised, and non-supervised circuits. End-of-line (EOL) resistance values are configurable, and the relays can be configured for fail-safe or fail-secure operation.

When connected to an HID Mercury intelligent controller, the MR52 can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to occur independent of the host. The MR52 can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller. Up to eight facility codes may be active in each MR52.

SPECIFICATIONS

Primary Power	12-24 VDC +/- 10%, 550mA maximum
Host Communication	RS-485, 2-WIRE, 4,000' (twisted pair with shield, Belden 9841)
Reader Ports	2 Reader Ports*
Card/Keyboard Data	OSDP, Clock/Data, Data-1/Data-0, RS-485, or F/2F
Keypad	8-bit Mercury, 8-bit Dorado/HID, 4-bit HID
Reader Power	Pass-through or 12 VDC regulated 300mA each reader
LED	One-wire bi-color LED or two-wire LED
Buzzer	Only with 'one-wire' LED
Inputs	8 General Purpose: Programmable circuit type 2 Dedicated: Tamper and Power Monitor
Output Relays	Six Form-C Relays: Normally open contact (NO): 5A @ 30 VDC resistive Normally closed contact (NC): 3A @ 30 VDC resistive
Dimensions	6.0" W x 8.0" L x 1.0" H (152mm W x 203mm L x 25mm H)
Temperature	Storage: -55° - 85° C Operational: 0° - 70° C
Humidity	5 to 95% RHNC
Product Compliance	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65

*Note: Up to two entry exit door applications (4 readers total) can be supported when connected to OSDP readers.



hidglobal.com

North America: +1 512 776 9000

Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +44 1440 714 850

Asia Pacific: +852 3160 9800

Latin America: +52 55 5081 1650

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2019-10-15-hid-pacs-mercury-mr52-series-3-reader-interface-ds-en PLT-04706

An ASSA ABLOY Group brand

ASSA ABLOY

HID® Mercury™ LP1502 Intelligent Controller

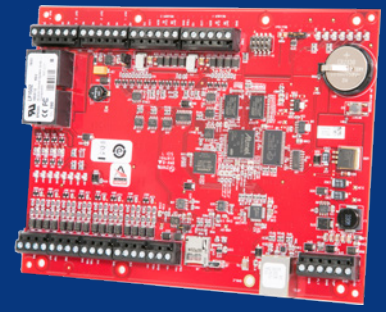
Intelligent controller (4 readers, 8 inputs, 4 outputs)

The HID Mercury LP Series Intelligent Controllers are HID Global's next generation advanced access control platform that runs on embedded Linux. The enhanced platform offers an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data. Built on the HID Mercury open platform, LP Series controllers provide the necessary flexibility for OEMs, channel partners and end customers to choose the controller configuration that best fits their needs.

The multi-port LP1502 is a 2-4 card reader panel for controlling two connected doors and managing up to 64 doors/openings. Built on the HID Mercury platform, the intelligent controller uses on-board Ethernet port to connect to cloud or server based access control hosts. The intelligent controller performs access control, alarm management and scheduled operations—all in a single package.

With native connectivity, the high-performance LP1502 functions independently of the host for performing numerous access control applications and supports OSDP, OSDP Secure Channel, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader technologies. System configuration and setup are provided through HID Mercury OEM partner software applications.

For partners seeking a comprehensive and open access control platform, and a reliable hardware platform running in a secure environment, the LP1502 is the clear solution. It delivers a complete security and access control solution as well as innovative application extensions, interoperability and data security.



KEY BENEFITS:

- Open Architecture – High performance, reliable platform enables use of hardware with HID Mercury OEM partners' software solutions.
- Enhanced Security – Embedded crypto memory chip and data at rest encryption provides secured layer of protection of sensitive data.
- OSDP Protocol – Secure channel communications for reader connectivity.
- Versatile Interoperability – Same reliable interface and identical footprint as the EP Controllers, enabling seamless upgrades for existing deployments.

HIGHLIGHTS

Third Party Integration Supported

- Wireless Locks
- Power Supply Alerts and Events

Security and Network

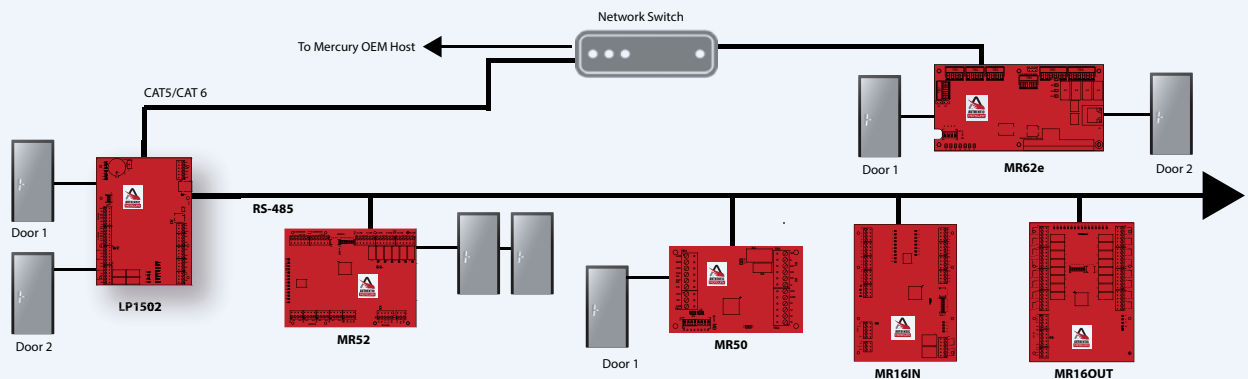
- IPv4/v6
- Host communications protected by TLS 1.2/1.1 or AES-256/128
- Controller/IO Expansion connection protected by AES
- Generate and load custom peer certificates for TLS
- Port based network access control using 802.1X
- FIPS 140-2 user of OpenSSL

Card Reader Functions

- Supports multiple card formats, paired and alternate readers, elevator, turnstile and biometric devices
- Anti-passback support (area, reader and time based)
- Programmable keypad user commands
- Threat level and operating mode

HID Mercury LP1502 Intelligent Controller

Access Control	240,000 cardholder capacity 50,000 transaction buffer Supports total of 1 RS-485 IO protocols 255 access levels per cardholder Cardholder - 19 Digit (64 Bit) User ID with 15 digit PIN MAX Activation/Deactivation If/Then macro capabilities Anti-passback support Nested, area, hard, soft and timed forgiveness Adjustable cardholder capacity Supports up to 520 inputs or 516 outputs
Door Control	Natively supports for up to 4 readers and 2 openings. Expands to support up to 64 readers and openings.
GENERAL	
Primary Power	12 to 24 VDC ± 10 %, 500 mA maximum (reader and USB ports not included)
Reader Port	600 mA maximum (add 600 mA to primary power current)
Micro USB Port	5 VDC, 500 mA maximum (add 270 mA to primary power current)
Battery	Memory/Clock Backup: 3 Volt Lithium, type BR2330 or CR2330
microSD Card	microSD or microSDHC; 2GB to 8GB
Host Communication	Ethernet: 10-BaseT/100Base-TX and USB port (2.0) with optional adapter: pluggable model USB2-OTGE100
Serial I/O Device	2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
Inputs	Eight unsupervised/supervised, standard EOL: 1k/1k ohm, 1%, ¼ watt. Two unsupervised dedicated for cabinet tamper and UPS fault monitoring
Output Relays	Four relays, Form C, NO 5 A @ 30 VDC resistive, NC 3 A @ 30 VDC resistive
READER INTERFACE	
Reader Power	12-24 VDC ± 10 % regulated, 300 mA maximum each reader
Data Inputs	TTL compatible, F/2F or 2-wire RS-485
RS-485 Mode	9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. Maximum cable length: 2000 ft. (609.6 m)
LED Output	TTL levels, high>3 V, low<0.5 V, 5 mA source/sink maximum
Buzzer Output	Open collector, 12 VDC open circuit maximum, 40 mA sink maximum
CABLE REQUIREMENTS	
Power and Relays	1 twisted pair, 18 to 16 AWG
Ethernet	CAT-5, minimum
Reader TTL	6-conductor, 18 AWG, 500 feet (150 m) maximum
Reader F/2F	4-conductor, 18 AWG, 500 feet (150 m) maximum
Reader RS-485	1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 2,000 ft. (610 m) max.
I/O Devices	1 twisted pair with drain wire and shield, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum
Alarm Input	1 twisted pair, 30 ohms maximum
ENVIRONMENTAL	
Temperature	-55 to +85 °C, storage, 0 to +70 °C, operating
Humidity	5 to 95% RHNC
MECHANICAL	
Dimensions	8 in. (203.2 mm) W x 6 in. (152.4 mm) L x 1 in. (25 mm) H
Weight	9 oz. (255 g) nominal, board only
COMPLIANCE AND WARRANTY	
Product Compliance	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65, NIST Certified Encryption
Warranty	The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the date of factory shipment.



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What are you looking for?



EN

CATALOG | RESOURCES | SUPPORT

CM-RQE70A / RQE70ABK PIR 'Request to Exit' Detectors



BROWSE

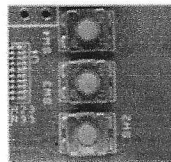


Camden's CM-RQE70A PIR 'REQUEST TO EXIT' Detectors provide the latest word in design, with a complete list of "high performance" features, including secondary activation device input, door monitoring, two relay outputs, and tamper alarm. Many new programming, installation, and set-up features that have never previously been available.

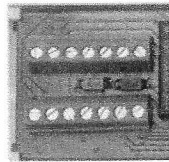
Camden started by making the CM-RQE70A smaller, so it can easily fit on door frames, and then made installing the detector faster and easier. CM-RQE70A comes with 4 factory default operating modes that can be selected with simple push buttons on the circuit board.

Have an unusual installation and need custom settings? No problem. You can use the on-board push buttons to customize the default operating modes or program your own custom operating mode. CM-RQE70A isn't just a new REX detector, it's a whole new approach to REX detector design!

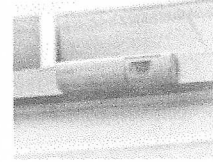
CM-RQE70A - 2018 New Product of the Year Winner



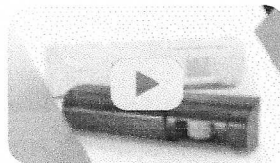
Programming Buttons
w/ Factory Default
Modes



On-Board Wiring
Terminal



Sized To Fit Door Frames



Camden's New CM-RQE70







Part of Our Touchless Wave
Product Family

FEATURES > | SPECIFICATIONS > | RESOURCES > | VIDEOS >

Voltage:	12/24 VDC Operation
Current Draw:	50 mA (Max)
Relays:	(2) Form 'C' (DPDT)

Contact Rating:	3 A @ 30 VDC
Programming:	On-board push buttons and status LED
Modes:	(4) Factory Default (1) Fully Custom Selectable Fail Safe/Fail Secure
Coverage:	Max. 10'W x 10'H Horizontal and Vertical Adjustment (Mechanical) Sensor Sensitivity/Range (Electronic)
Time Delay:	Adjustable, 5, 15, 30, 45 & 60 second
Sounder:	ON/OFF, with Adjustable Volume
Piezo Buzzer:	92 db. @ 10cm
Indicator:	Activation LED
Card or Keypad Input:	(1) N/O
Door Position Switch Input:	(1) N/O
Request to Exit Input:	(1) N/O
Tamper Switch Contact Rating:	50 mA 12 VDC
Temp Operating Range:	32°F-120°F (0-50°C)
Humidity Range:	0- 93% Non-Condensing
Dimensions:	1-3/4"H x 7"W X 1-3/4"D (43mm x 176mm x 43mm)
Weight:	0.25 Lbs. (0.12 Kg.)
Colors:	White or Black Models

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MODELS			
Model	Description		
	CM-RQE70A	PIR 'REQUEST TO EXIT' Detector , white, w/ wiring terminal, C/W (2) Form 'C' (DPDT) Contacts, 12/24 VDC	EDI DATA APPROVALS
	CM-RQE70ABK	PIR 'REQUEST TO EXIT' Detector , black, w/ wiring terminal, C/W (2) Form 'C' (DPDT) Contacts, 12/24 VDC	EDI DATA APPROVALS
	CM-RQEPW	Single Gang Adaptor Plate (White)	EDI DATA APPROVALS
	CM-RQEPK	Single Gang Adaptor Plate (Black)	EDI DATA APPROVALS

new option

new kit

COMPATIBLE PRODUCTS

COMPATIBLE PRODUCTS



CX-90/91 Series: Single Door Magnetic Locks

CERTIFICATE OF COMPLIANCE

Certificate Number 20190131-BP7175
Report Reference BP7175-20170727
Issue Date 2019-JANUARY-31

Issued to: CAMDEN DOOR CONTROLS
5502 TIMBERLEA BLVD
MISSISSAUGA
ON L4W 2T7 CANADA

**This certificate confirms that
representative samples of**

ACCESS CONTROL SYSTEM UNITS

Security Equipment - Access control unit accessory,
request of exit passive infrared sensor, Model CM-RQE70,
CM-RQE70A.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 294 - Access Control System Units.
CAN/ULC-S319-05 - Canadian Standard for Electronic
Access Control Systems.

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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HID® Signo™ Readers

Models: 20, 40, 20K, 40K, 40T

The signature line of readers from HID

HID Signo™ is the signature line of physical access control readers from HID. The versatility, performance and connected capabilities of HID Signo readers set a new industry benchmark for the most highly adaptable, interoperable and secure approach to electronic access control.

Offering an unparalleled breadth of functionality, HID Signo affords security system installers and administrators a simple and effective approach to secure access control for almost any scenario.

With support for the widest array of credential technologies — past, present and future — HID Signo is the perfect choice for those looking to make the transition to a secure authentication technology.

HID Signo readers transcend the traditional approach to security by being designed to be connected and managed remotely without needing to physically touch each device. This functionality empowers access control systems to dynamically respond as new needs, configurations or threats arise.

POWERFULLY SECURE

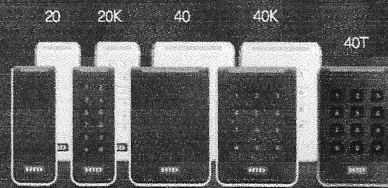
- Multi-Layered security to ensure data authenticity and privacy
- EAL5+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports HID® Elite Key™ and HID® Corporate 1000™ Programs

MEET EVERY NEED, ADAPT TO ANY SITUATION

- Go mobile with native Bluetooth and NFC support
- Integrated 125 kHz credential read support for easy migration
- Supports over 15 common credential technologies
- Flush mount terminal block and pigtail wiring options
- Robust outdoor performance with an IP65 rating

MANAGE, UPGRADE AND CONFIGURE

- Easily and securely managed using HID Reader Manager®
- Configure via a mobile device or OSDP
- Update firmware in response to threats
- Personalize by configuring audio visual or keypad settings
- Deactivate legacy credential technology to conclude secure migration



KEY BENEFITS:

- **Highly Versatile** — Support for the widest range of credential technologies, including HID Mobile Access® via native Bluetooth and Near Field Communication (NFC).
- **Enhanced Performance** - Storage of cryptographic keys on certified secure element hardware, plus a new surface detection feature that enables the reader to automatically recalibrate and optimize read range performance.
- **Connected to the Future** — All readers include out-of-the-box support for Open Supervised Device Protocol (OSDP) for secure bidirectional communication.

READY FOR THE FUTURE NOW

- Mobile-ready by default, including Apple's Enhanced Contactless Polling (ECP) to support credentials in Apple Wallet
- Sleek, innovative design to suit modern architecture, available in black or white
- Integrated OSDP for secure authentication and configuration post installation
- Built on a hardware platform designed to be adaptable to support future technology
- Designed to seamlessly integrate into the HID Origo® ecosystem

HID Signo Reader Model	20	20K	40	40K	40T	
2.4 GHz (Bluetooth) Credential Compatibility	Mobile Credentials powered by Seos® (HID Mobile Access) ¹					
13.56 MHz (NFC) Credential Compatibility	Seos®, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2/EV3, FeliCa™ & Contactless e-Purse Application Specification (CEPAS), Mobile Credentials powered by Seos (HID Mobile Access)					
125 kHz Credential Compatibility	HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity					
Typical Read Range²	Seos, iCLASS® SE™, iCLASS® SR, iCLASS, MIFARE Classic, MIFARE DESFire EV1/EV2/EV3 & ISO14443A Single Technology Cards – 1.6 to 4 in (4 to 10 cm); HID / AWID Proximity®, Indala Proximity®, EM Proximity & 125 kHz Single Technology Cards – 2.4 to 4 in (6 to 10 cm)					
Mounting	Suited for mullion-mount door installations or any flat surface mounting		Suited to mount and cover single gang switch boxes with a slotted mounting plate for alternate back-box spacing			
Color	Black or white with silver trim baseplate ³				Black with silver trim baseplate ³	
Keypad	No	Yes (2 x 6 layout)	No	Yes (3 x 4 layout)		
Dimensions (width x length x depth)	1.77 in x 4.78 in x 0.77 in (45 mm x 121.5 mm x 19.5 mm)	1.78 in x 4.79 in x 0.85 in (45 mm x 121.5 mm x 21.5 mm)	3.15 in x 4.78 in x 0.77 in (80 mm x 121.5 mm x 19.5 mm)	3.16 in x 4.79 in x 0.85 in (80 mm x 121.5 mm x 21.5 mm)	3.16 in x 4.82 in x 0.96 in (80mm x 122.5mm x 24.5mm)	
Product Weight	Pigtail: 3.35 oz (95 g) Terminal: 2.65 oz (75 g)	Pigtail: 3.88 oz (110 g) Terminal: 3.17 oz (90 g)	Pigtail: 4.94 oz (140 g) Terminal: 4.23 oz (120 g)	Pigtail: 5.64 oz (160 g) Terminal: 4.94 oz (140 g)	5.82 oz (165 g) Terminal Only	
Operating Voltage⁴	12V DC					
Current Draw⁵	NSC ⁶ : 60 mA Peak ⁷ : 250 mA Max. Avg: 70 mA IPM ⁸ : 45 mA	NSC ⁶ : 65 mA Peak ⁷ : 250 mA Max. Avg: 75 mA IPM ⁸ : 48 mA	NSC ⁶ : 65 mA Peak ⁷ : 250 mA Max. Avg: 75 mA IPM ⁸ : 45 mA	NSC ⁶ : 70 mA Peak ⁷ : 250 mA Max. Avg: 80 mA IPM ⁸ : 55 mA	NSC ⁶ : 90mA Peak ⁷ : 250mA Max. Avg: 120mA IPM ⁸ : 75mA	
Device Input and Output	Input: Tri-color LED, Buzzer, Hold @ Active/Low Output: Tamper Relay 0-60V DC @ 100mA Max (Dry Contact)					
Operating Temperature & Humidity	-31° F to +150° F (-35° C to +66° C) 0% to 95% non-condensing					
Storage Temperature	-40° F to +185° F (-40° C to +85° C)					
Environmental Rating	UL294 Outdoor and Indoor rated, IP65					
Transmit Frequency	125 kHz, 13.56 MHz, and 2.4 GHz ¹					
Communications & Panel Connection	Wiegand, Clock-and-Data and RS-485 Half Duplex (OSDP) via Pigtail (18 in / 0.5 m) or Terminal Strip ⁹					
Device Management	HID Reader Manager / OSDP configuration					
Certifications	UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), MIC/Gireki (Japan) WPC/BIS (India), KCC (Korea), NCC (Taiwan), iDA (Singapore), MIC (Japan), RoHS, GreenCircle, Bluetooth SIG, and additional regions. www.hidglobal.com/certifications					
Security Ratings	EAL 5+ Certified Secure Element Hardware					
Patents	www.hidglobal.com/patents					
Housing Materials	Polycarbonate – UL94V0					
UL Reference Number	20	20K	40	40K	40T	
Warranty	Limited Lifetime					

- Select models are available without Bluetooth LE functionality via Factory Feature Block
- Read range listed is statistical mean rounded to nearest centimeter increment for ID-1 or clamshell credentials. HID Global testing occurs in open air. Form factor, technology and environmental conditions, including metallic mounting surface, can degrade read range performance; plastic spacers are recommended to improve performance on metallic mounting surfaces.
- Black spacers available as an additional accessory at an additional cost.
- Measured in accordance with UL 284 standards at +50% and -15% of rated voltage input.
- Measured in accordance with UL 284 standards; see Installation Guide for details.
- NSC – Normal Standby Current; see Installation Guide for details.
- Peak measures in default condition.
- Intelligent Power Management (IPM) – Reduces reader current consumption up to 43%, based on model, compared to standard operating mode.
- 40T orderable only as Terminal Strip connection type.



HID

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Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108

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