Microtron®
Flexible electronic solutions

HID

multiCLASS SE® Readers

HIGHLY ADAPTABLE AND SECURE HIGH FREQUENCY ACCESS CONTROL SOLUTION

- **Powerfully Secure** – Provides layered security beyond the card media for added protection to identity data using SIOs.

- **Adaptable** – Interoperable with a growing range of technologies and form factors including mobile devices utilizing Seos™.

- **Interoperable** – Open Supervised Device Protocol (OSDP) for secure, bidirectional communication.

- **Streamlined Migration** – Simultaneous support for 125 kHz HID Prox®, AWID and EM4102 for seamless migration; field programmable for secure upgrades and extended lifecycle.

multiCLASS SE readers include Open Supervised Device Protocol (OSDP), a new Security Industry Association (SIA) standard that together with Secure Channel Protocol (SCP) provides secure communications and central management.

HID Global's iCLASS SE® platform goes beyond the traditional smart card model to offer a secure, standards-based and flexible platform that has become the new benchmark for highly adaptable, interoperable and secure access control solutions.

multiCLASS SE® readers simplify migration from legacy technologies with support 125 kHz for HID Prox, Indala, AWID and EM4102, and provide customers the assurance that their existing investments can be leveraged to enhance their system as business requirements change. The technology-independent readers also support iCLASS® Seos™ and iCLASS SE credential platforms, as well as standard iCLASS, MIFARE and

MIFARE DESFire EV1 with custom data models and other leading technologies.

Additionally, multiCLASS SE readers support mobile devices utilizing Seos, enabling a new class of portable identity credentials that can be securely provisioned and safely embedded into both fixed and mobile devices.

As part of HID Global's iCLASS SE platform that is based on the Secure Identity Object™ (SIO®) data model and Trusted Identity Platform® (TIP™), the powerfully secure multiCLASS SE readers offer advanced features such as layered security beyond the card media and tamper-proof protection of keys/cryptographic operations using EAL5+ secure element hardware.

POWERFULLY SECURE:
- Multi-Layered Security – Ensures data authenticity and privacy through the multi-layered security of HID's SIO.
- EAL5+ Certified Secure Element Hardware – Provides tamper-proof protection of keys/cryptographic operations.
- SIO Data Binding – Inhibits data cloning by binding an object to a specific credential.
- Secured communications using OSDP with Secure Channel Protocol.

HIGHLY ADAPTABLE:
- Mobile device support using card emulation - Enables HID access control.
- SIO Portability – Provides technology independence and portability to other smart card technologies.
- Upgradeable Hardware Connection – Allows all Wiegand-based communication readers to expand communication capabilities to OSDP, Hi-O and other bidirectional protocols.
- Field Programmable Readers – Provides secure upgrades for migration and extended lifecycle.

- Customization and management from a central location – Enables organization to make changes and manage all attached OSDP readers over RS485 wiring.
- Simultaneous support for 125kHz HID Prox, AWID and EM4102.
- Allows for support of future technologies.

SUSTAINABILITY AND MANAGEMENT:
- Intelligent Power Management (IPM) – Reduces reader power consumption by as much as 75% compared to standard operating mode.
- Recycled Content – Contributes toward building LEED credits.

INTEROPERABLE:
- SIO Media Mapping – Simplifies deployment of third-party objects to multiple types of credentials.
- Industry standard communications using OSDP.
- Custom programming support to read custom data models on MIFARE and MIFARE DESFire EV1 credentials.

SPECIFICATIONS

	RP10	RP15	RP40	RPK40
Base Part Number	900P 900L	910P 910L	920P 920L	921P 921L
Typical Read Range[1]				
	13.56 MHz Single Technology ID-1 Cards – SIO Model Data			
	iCLASS Seos: 1.2" (3 cm) iCLASS: 3.1" (8 cm) MIFARE Classic: 2.8" (7 cm) MIFARE DESFire EV1: 1.2" (3 cm)	iCLASS Seos: 1.2" (3 cm) iCLASS: 3.1" (8 cm) MIFARE Classic: 2.8" (7 cm) MIFARE DESFire EV1: 1.2" (3 cm)	iCLASS Seos: 2.0" (5 cm) iCLASS: 4.7" (12 cm) MIFARE Classic: 4.7" (12 cm) MIFARE DESFire EV1: 2.0" (5 cm)	iCLASS Seos: 1.6" (4 cm) iCLASS: 4.7" (12 cm) MIFARE Classic: 4.3" (11 cm) MIFARE DESFire EV1: 1.6" (4 cm)
	13.56 MHz Single Technology Tags/Fobs – SIO Data Model			
	iCLASS: 1.6" (4 cm) MIFARE Classic: 1.2" (3 cm)	iCLASS: 1.6" (4 cm) MIFARE Classic: 1.2" (3 cm)	iCLASS: 2.4" (6 cm) MIFARE Classic: 2.0" (5 cm)	iCLASS: 2.8" (7 cm) MIFARE Classic: 1.6" (4 cm)
	125 kHz Single Technology ID-1 Cards			
	HID Prox: 2.8" (7 cm) Indala Prox: 1.6" (4 cm) EM4102 Prox: 4.3" (11 cm)	HID Prox: 2.8" (7 cm) Indala Prox: 1.6" (4 cm) EM4102 Prox: 4.3" (11 cm)	HID Prox: 2.8" (7 cm) Indala Prox: 2.0" (5 cm) EM4102 Prox: 4.3" (11 cm)	HID Prox: 2.8" (7 cm) Indala Prox: 2.0" (5 cm) EM4102 Prox: 3.1" (8 cm)
	125 KHz Single Technology Tags/Fobs			
	HID Prox: 1.6" (4 cm) Indala Prox: 0.8" (2 cm) EM4102 Prox: 2.8" (7 cm)	HID Prox: 2.0" (5 cm) Indala Prox: 0.8" (2 cm) EM4102 Prox: 2.8" (7 cm)	HID Prox: 2.0" (5 cm) Indala Prox: 1.2" (3 cm) EM4102 Prox: 2.8" (7 cm)	HID Prox: 1.6" (4 cm) Indala Prox: 1.2" (3 cm) EM4102 Prox: 2.4" (6 cm)
Mounting	Mini-Mullion Size; physically HID's smallest iCLASS readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface	Mullion Size; physically HID's second smallest iCLASS readers and are ideally suited for mullion-mounted door installations, U.S. single-gang J-box (with mud ring) or any flat surface	Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing	
Color	Black			
Keypad	No			Yes (4x3)
Dimensions	1.9" x 4.1" x 0.9" 4.8 cm x 10.3 cm x 2.3 cm	1.9" x 6.0" x 0.9" 4.8 cm x 15.3 cm x 2.3 cm	3.3" x 4.8" x 1.0" 8.4 cm x 12.2 cm x 2.4 cm	3.3" x 4.8" x 1.1" 8.5 cm x 12.2 cm x 2.8 cm
Product Weight (Pigtail)	4.0oz (114g)	5.2oz (149g)	7.8oz (222g)	9.1oz (258g)
Product Weight (Terminal Strip)	3.0oz (85g)	4.3oz (124g)	7.6oz (216g)	8.0oz (228g)
Operating Voltage Range	5-16 VDC, Linear supply recommended			
Current Draw - Standard Power Mode[2] (mA)	75	75	85	95
Current Draw - Intelligent Power Management (IPM) Mode[2] (mA)	40	40	50	70
Peak Current Draw - Standard Power or IPM Mode[2] (mA)	200	200	200	200
NSC[3] Power Consumption - Standard Power Mode (W @ 16VDC)	1.2	1.2	1.4	1.5
NSC[3] Power Consumption - w/ IPM (W @ 16VDC)	0.6	0.6	0.8	1.1
Operating Temperature	-31º to 150º F (-35º to 65º C)			
Storage Temperature	-67º to 185º F (-55º to 85º C)			
Operating Humidity	5% to 95% relative humidity non-condensing			
Environmental Rating	Indoor/Outdoor IP55; IP65 if installed with optional gasket (IP65GSKT)			
Transmit Frequency	13.56 MHz & 125 kHz			
13.56 MHz Card Compatibility	Secure Identity Object™ (SIO®) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1 and MIFARE Classic (On by Default) - standard iCLASS Access Control Application (order with Standard interpreter) -ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN - MIFARE Classic and MIFARE DESFire EV1 custom data models - FeliCa™[4] CSN, CEPAS[4] CSN or CAN			
125 kHz Card Compatibility	HID Prox[4], AWID[4], Indala, EM4102[4]			
Communications	Optional OSDP with SCP over RS485[4] Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG) - Use Shielded cable for best results			
Panel Connection	Pigtail or Terminal Strip			
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea)[4], NCC (Taiwan)[4], iDA (Singapore)[4], RoHS , FIPS-201 Transparent FASC-N Reader			
Cryto Processor Hardware Common Criteria Rating	EAL5+			
Patents	US7180403, US7439862, US7124943, US5952935, US6058481, US6337619			
Housing Material	UL94 Polycarbonate			
Manufactured with % of recycled content (Pigtail)	10.5%	11.0%	10.5%	10.9%
Manufactured with % of recycled content (Terminal Strip)	10.5%	11.0%	11.0%	12.3%
UL Ref Number	RP10E	RP15E	RP40E	RPK40E
Warranty	Limited Lifetime			

GreenCircle CERTIFIED

Microtron®
Flexible electronic solutions

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