



iCLASS SE® U90 Long Range Reader



UHF LONG RANGE READER FOR SECURE PARKING AND GATE CONTROL

- **Convenient** – Discreet hands-free authentication solution for long range parking and gate control.
- **Dynamic** – Field configurable via a full user interface for ease of maintenance.
- **Compliant** – Supports UHF ISO 18000-6C compliant credentials containing Secure Identity Object® (SIO®) encryption technology.
- **Powerfully Secure** – Encryption of card data through controller, enabling secure end-to-end communications.

Tech Highlights:

- Proven technology offers consistent read range.
- Open architecture design enables use of standard or custom keys for enhanced security.
- IP65 rating allows outdoor mounting in extreme environments.
- Supports OSDP and Wiegand standards.

HID Global's iCLASS SE® U90 Long Range Readers offer an extended range solution for parking and gate control. Featuring advanced encryption technology, the solution delivers the most secure ultra-high frequency (UHF) access control on the market. With a read range of up to five meters, the iCLASS SE U90 can read multiple credential types and support a mixed credential population. The ability to combine building access with parking and gate control on a single card or fob offers both convenience and security.

As part of HID Global's iCLASS SE platform for advanced security, the readers utilize state-of-the-art authentication through the platform's Secure Identity Object (SIO) data model. When paired with SIO-enabled UHF credentials, the platform provides

trusted and secure communication between the card and reader to prevent unauthorized access. The iCLASS SE U90 Long Range reader is built on the Security Industry Association (SIA) Open Supervised Device Protocol (OSDP) standard, which also ensures secure transmission of data from the reader to the controller.

Built to withstand exposure to severe weather, the reader includes a rugged housing that protects the antennae and electronics from harsh conditions. The easy-to-install readers are built on the VESA standard and do not require custom mounting hardware. Once installed, the iCLASS SE U90 can be locally configured via an Ethernet port and a user-friendly web interface for ease of maintenance.

iCLASS SE U90 TECHNOLOGY FEATURES:

- Dual payload – SIO® and EPC (Electronic Product Code) data payload for backward interoperability.
- Multi-layered security (beyond the chip security) – Ensures data authenticity and privacy through HID Global's SIO supporting state-of-the-art cryptography (with AES 128 cryptography).
- SIO data binding – Inhibits data cloning by binding an object to a specific credential.
- Easy configuration with the embedded web interface - Provides all tools necessary for a seamless installation.

SPECIFICATIONS

Model Name	iCLASS SE U90 Long Range Reader		
Base Part Number	RDRSEU90		
	ELECTRONIC		
Transmit Frequency	865 - 868 MHz / 902 - 928 MHz dependent on regional regulations		
Typical Maximum Read Range	3 to 5 meters		
Input Voltage (VDC)	12VDC or 24VDC		
Current	Standby Avg ¹ 320mA @ 12VDC / 160mA @ 24VDC	Max AVG ² 400mA @ 12VDC 200mA @ 24VDC	PEAK ³ 1.0A @ 12VDC 0,5A @ 24VDC
Cable Length	Wiegand = 500 ft (152 m) – 22 AWG 300 ft (91 m) – 24 AWG	RS-485 = 4000 ft (1,219 m) – 24 AWG	
	PHYSICAL		
Dimensions	9.10" x 9.10" x 2.75" (23.1 cm x 23.1 cm x 7.0 cm)		
Color	Black		
Housing Material	UL94 Polycarbonate		
Mounting	Drill mounting box to meet application. Drill points provided for US and EU wall boxes and 75 mm, 100 mm, 200 mm VESA mounts.		
	THERMAL		
Storage Temperature	-67° to 185° F (-55° to 85° C)		
Operating Temperature	-30° to 150° F (-35° to 65° C)		
Operating Humidity	5% to 95% relative humidity non-condensing		
Environmental Rating	IP65		
	OTHER		
Standards	UL294/cUL (US & Canada), CB Scheme, FCC Certification (US), IC (Canada), CE (EU),IFETEL (Mexico), ANATEL (Brazil)		
Crypto-Processor Hardware Common Criteria Rating	EAL5+		
Card Compatibility	UHF EPC Class 1 Gen 2, ISO 18000-6C		

¹ Standby AVG - RMS current draw without a card in the RF field

² Maximum AVG - RMS current draw during continuous card reads. Not evaluated by UL

³ Peak - highest instantaneous current draw during RF communications



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