

SED-902 Handheld-Master

Wireless Card Reader Access Control



The SED-902 is the latest generation of wireless access control products designed and developed by Sec-Eng Systems.

The Handheld-Master system provides a portable card reader capable of sending card data to the client's access control system in real time via a wireless ISM LoRa radio link.

- Supports Wiegand and Gallagher access control systems
- Up to 400m operational line of sight range (subject to RF conditions)
- Built in rechargeable handheld battery
- Durable & light weight handheld construction
- Expandable system to support up to 10 handhelds
- Dual card data output channels (for site entry & exit)
- Ability to lock the card data channel (In & Out button)
- Full card reader LED and buzzer functionality.

Supported card readers include:

- HID Prox & ICLASS series
- Gallagher T-series (T10, T11, T15)
- Cardax 125
- GE
- BQT
- Siemens
- Mifare



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FEATURES

OPERATION

The SED-902 Handheld-Master system provides a portable wireless card reader with a real-time data connection to the client's Wiegand or Gallagher access control system. The SED-902 Handheld is able to transmit the card data to a Master base station via a low power 915MHz (LoRa) encrypted wireless radio signal, with a line of sight range of up to 400m (Range is subject to RF conditions at location). The Master base station then passes the card data to the access control system through the wired reader ports. The access control system can then send a signal back to the reader to provide the user with LED and buzzer feedback on the status of the card presented. This entire action takes place all within 1 second.

SYSTEM EXPANSION

Additional Handheld readers can be added to the system by using the SED-902 Expander units. The Expanders utilise the same radio link as the Master to communicate with other Handhelds within radio range. Up to 10 additional Handheld-Expander pairs can be added to a single Master.

IN/OUT CHANNELS

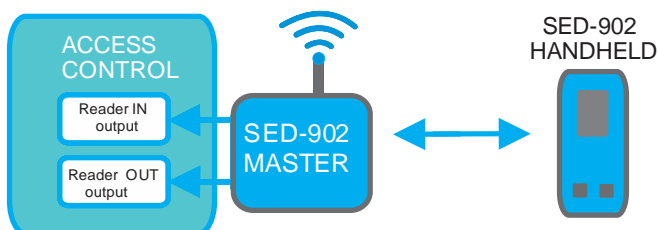
The SED-902 system provides the user with the ability to use a single card reader for persons entering and exiting the site. This is done by using the I/O button on the Handheld which toggles the output card data between the two ports on the Master/Expander. The I/O buttons can also be locked in the IN or OUT position if required.

POWER AND BATTERY

The Handheld operates on a long-life rechargeable Lithium Ion battery pack, allowing the unit to run for an extended period of time on battery power. This run time will vary depending on the type of reader fitted and its use. A typical HID readers will give up to 20 hours of standby time.

LEDS AND BUZZER

The card reader fitted to the Handheld unit will have full functionality of its LED indicator and buzzer (just like a wired reader). The Handheld itself features a number of LEDs to indicate the status of radio signal, battery charge and data transfer.



TECHNICAL SPECIFICATIONS

RADIO SPECIFICATIONS

Frequency Operational: 915MHz to 928MHz
Transmit Power: 100mW
Security Encryption: 128bit AES key coded

ACCESS PROTOCOL SUPPORTED

Wiegand: 240bit (up to)
Gallagher/Cardax: GBUS
(HBUS not supported)

SED-902 HANDHELD

Battery: 14V 2.34Ah Lilon
Charge Time: 3 Hours
Standby Time: 20 Hours
Charger Input: 110V-240VAC
Charger Output: 24V DC 2.5A
Reader Power: 8V DC
Antenna Type: Internal - PCB
IP Rating: IP 61
Dimensions: 197 x 66 x 43mm
(Plastic Housing)

SED-902 MASTER

Power Pack Input: 230V-240VAC
Power Pack Output: 16V AC 1.5A
External Power Supply: 12V or 24V DC 2.5A
Backup Battery: 12V 7Ahr gel cell
(Not included)
Antenna Connection: SMA Female
Antenna Type: External 3dB Omni
(High Gain Optional)
Dimensions: 235 x 250 x 80mm
(Metal Cabinet)

SED-902 EXPANDER

Power Input: Supplied by Master unit
via RS485 link
Antenna connection: Not applicable
Dimensions: 235 x 250 x 80mm
(Metal Cabinet)

