

The Inner Range Mobile Access Keypad is a combined Bluetooth enabled, IP67 rated Keypad and Smart Card reader that supports both Bluetooth mobile technology and SIFER encrypted card formats offering dual credential access control through Mobile Credential / Card & PIN authentication. (PIN only or Mobile Credential / Card only is also supported).

The Mobile Access Keypad is a multi-drop RS-485 device that employs 128 bit AES encryption from the card/keypad through to the door module, providing a far superior level of security than that of traditional Wiegand based keypads & card readers.

These Keypads utilise the Mifare DESFire© EV1/EV2/EV3 card format. As SIFER Keypads utilise a superset of the OSDP protocol, these keypads may also be deployed on any system capable of using OSDP. The Keypads are connected to the RS-485 reader port for full Reader-In and Reader-Out operation of various Inner Range products as below.

- Integriti Access Controller (IAC) - Up to 16 Keypads on-board
- Intelligent LAN Access Module (ILAM) - Up to 16 Keypads/Readers
- Standard LAN Access Module (SLAM) - Up to 4 Keypads/Readers
- Inception Controller - Up to 8 Keypads on-board

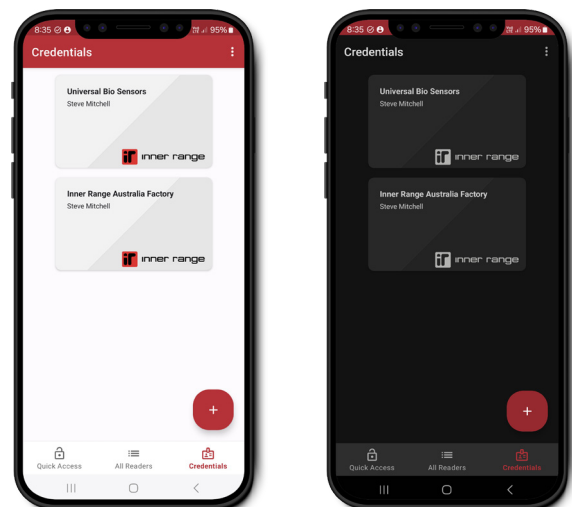
These Keypads are IP67 rated and available with site-specific encryption keys.



Reader Features

- Secure 128bit AES Encryption
- Bluetooth enabled Keypad
- Encrypted from Keypad/Card through to Access Module
- Supports Card & PIN, Card only or PIN only modes
- Auto dimming backlit Silicon rubber keypad
- Mifare DESFire© EV1/EV2/EV3 Card Format
- Water & Dust Resistant to IP67
- Vandal Resistant (fully potted)
- Flexible LED colour & function Assignment
- Audible Buzzer (can use as DOTL)
- Multi-drop RS-485 Reader LAN
- Individual Reader Heartbeat Monitoring
- Auto Reader Discovery on Inner Range systems
- OSDP Compatible
- Read Card Serial Number (CSN) From 3rd Party Cards (Multi-Format Version Only)
- Support for Custom Site Codes and Site-Specific Encryption
- User Programmable Cards Offer Great Flexibility for Installers
- Global Configuration From Inner Range Systems (including firmware updates)
- Small Footprint (Dimensions: 64 (W) x 106(H) x 18 (D) mm)

SIFER Connectivity Guide	Host Module			
	IAC	SLAM	ILAM	Inception Controller
SIFER Reader Qty	16	4	16	8



Specifications

Physical

Dimensions (W x L x D):	63 mm x 106 mm x 19 mm
	2.5" x 4.17" x 0.75"
Keypad Button Size:	12.3 X 9 (MM) Auto-dimming back lit
Shipping Weight:	162grams
Mounting Plate:	102.7(L) x 60.2(W) (mm)
Mounting Method:	2 x fixing screws for mounting plate
Mounting Holes:	65.5mm hole spacing
Mounting Surface:	Optimised for flat non-metallic surfaces
Cavity Cable Entry Hole:	Up to 20mm
Installation Environment: -	-25°C to +65°C @15% - 90% relative humidity (non-condensing)
Ingress Protection:	IP67

Reader Protocols

Device Communications:	Open Supervised Device Protocol (OSDP)
Operating Frequency:	13.56 Mhz
Credentials:	Mifare DESFire© EV1/EV2/EV3 with AES encryption
Credentials:	Read Card Serial Number (CSN) from 3rd party cards

Connections

Pigtail Cable Length:	500mm
Pigtail Extension Cable Type:	2-pair 7/0.20 (24AWG) twisted pair data cable as minimum. 2-pair 14/0.20 (21AWG) multi-strand shielded twisted pair data cable is preferred (e.g. Belden 8723). See installation manual for more info.
Connection Methods:	RS-485 multi-drop star or daisy chain configurations
Distance to Host Module:	Up to 1000 meters. See installation manual for more information
Max Readers:	Up to 16 with IAC & ILAM, Up to 8 with Inception Controller, Up to 4 with SLAM
Compatible Host Modules:	Standard LAN Access Module (SLAM), Intelligent LAN Access Module (ILAM), Inception Controller, Integriti Access Controller (IAC)

Reader Security

Physical Tamper:	Optical beam to mounting surface
Card to Reader:	128bit AES encryption
Reader to Access Module:	128bit AES encryption
Vandal Resistance:	Fully encapsulated vandal resistant electronics

Reader Configuration

LAN Addressing:	Fully automatic when used with Inner Range systems Manual addressing with 3rd party OSDP compatible systems
Firmware Updates:	Over-the-wire firmware updates when used with Inner Range systems
Reader Purpose Options:	Control a Door, Control a Lift, Log on, Area status toggle

Keypad, LED & Beeper Indicators

Keypad:	Backlit auto-dimming silicon rubber keypad with a highly tactile operation feel
LED Configuration:	Brightness, Colours & Feedback modes - configurable via Integriti Software or Inception Controller
LED 1 & 2 Colour Options:	RGB Indicator 23 colour selectable
Feedback Modes for LED's:	Area Status, Area Alarm/Isolated, Entry/Exit Delay, Door open/locked status, Valid/Invalid card badge, No LED's
Beeper Volume:	Variable - configurable via Integriti software or Inception Controller
Beeper Feedback Options:	Valid/Invalid card badge, Door Open tool long (DOTL), Area Alarm, Entry/Exit Delay

Power Requirements

Power supply	11V-14V DC < 500mV ripple
Current consumption	65 - 115mA typical, 165mA Max with all LED's driven at full brightness

Compliance

Electrical	
Environmental	

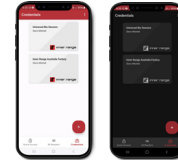
**SIFER-C cards are programmed with a custom encryption key and will require at least one SIFER Reader Configuration card with the initial batch. The SIFER Reader Configuration Card is available under Part Number 994614CNF

Ordering Options



Keypad

994726
IR Mobile Access Keypad



Credentials

Mobile Access Credentials

994635ICP Inception
994635INF Infiniti
994635 Integriti



ISO Cards

994610
SIFER-P DESFire© EV3 4K ISO (Pre-programmed- Printed)
994612
SIFER-U DESFire© EV3 4K ISO (User Programmable - Printed)
994614**
SIFER-C DESFire© EV3 4K ISO (Custom Programmed - Printed)
994580
ECOLITE MIFARE Ultralight EV1 (Pre-programmed)



FOB's

994616
SIFER-P DESFire© EV3 4K FOB (Pre-programmed - Printed)
994618
SIFER-U DESFire© EV3 4K FOB (User Programmable - Printed)
994620**
SIFER-C DESFire© EV3 4K FOB (Custom Programmed - Printed)



Management Tools

994750 SIFER -U Card Programming Station
994751 SIFER Card Enrolment Station

