

RAMAC™

REMOTE ACCESS MANAGEMENT AND CONTROL SYSTEMS



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REMOTE LOCK

The Ramac™ Remote Lock is a Sigfox enabled device with two digital logic inputs that can monitor enclosures such as doors and/or locks. It incorporates a powerful driver output that can control the actuator to serve as a locking mechanism to manage entry to high sites network using the Ramac™ App. Communication is fully encrypted between the mobile phone and cloud server, ensuring complete protection for site access.

GENERAL INFORMATION

- Real-time Communication utilizing SigFox Radio Networks
- Small form factor, simple installation
- Tamper detection alarms
- Authorized and unauthorised alerts
- High temperature status notification
- Daily self diagnoses via heartbeat message
- Firmware upgradeable via mobile application
- API and call-back configuration
- Mobile application IOS and Android
- RAMAC™ portal for device management, remote monitoring and event reporting
- NFC Encrypted door contact inputs



CONNECTIVITY

- Bluetooth Low Energy
- SigFox RCZ1 - Class 0



SPECIFICATIONS

- SigFox Certified Class 0 Device (RCZ1)
- ICASA Approved
- Rugged Housing
- Operating Temperature: -10°C to +60°C



Simple Install - Plug and Play

- RAMAC™ Portal is a ready to use online web-based portal
- RAMAC™ App allows local device configuration, OTA Firmware updates, diagnostics and real time information of the device
- RAMAC™ API allows for easy integration into 3rd party systems



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Connectivity

Radio	Bluetooth 5.0 with Bluetooth link Encryption Enabled (All settable function protected by an AES 128-bit security challenge Response)
Output Power:	+4dBm
Radio:	Sigfox RCZ1

Power

Main Input:	12V DC - 75 V DC
Auxiliary Input:	12V DC - 16V DC
Actuator Output:	12V DC @ 5A
NFC Reader Output:	12V DC @ 500mA

NFC Reader(s)

Input:	12V DC
Communication:	RS-485 (AES 128-bit Encrypted link) to RL1 NFC (RFID) - ISO14443 Reader RL1 capable to handle 2 NFC readers.

NFC Tag(s)

Communication:	NFC (RFID) - ISO14443 Tag with data AES 128-bit Encrypted
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Digital Inputs

Inputs:	x2 Dry-contact inputs (No Voltage Inputs)
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Mechanics

RL1

Dimensions (RL1):	145 x 67 x 40 mm
Weight (RL1):	185g

NFC Reader

Dimensions:	75 x 55 x 35 mm
Weight:	30g

NFC Tag

Dimensions:	30 mm Diameter x 5 mm
Weight:	1g

Operating Temperature:

Range:	-20 °C to + 60 °C
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