



Emtelle UK Ltd. Haughhead Hawick TD9 8LF United Kingdom

info@emtelle.com www.emtelle.com

Product Datasheet UK DS SMARTLOCK

Centralised Access Management System





Product Description:

The GLAM-SP (GridLock Access Management - Static Platform) is a centralised access management application for the management of access requests to remote locations which have been equipped with static locking devices and configured on this system. This system is GPS (Global Positioning System) based and independent of national and international boundaries. Furthermore, this system provides geographical views and GPS positioning of all remote locations and utilises wireless communication and radio frequency identification technology, as well as mechanical interlocking mechanisms to secure these remote locations.

Along with accesss management the system can also be confirgured with Smartlock IOT (Internet of Things) sensor. This IOT device uses the SIGFOX IOT network to communicate with the Smartlock platform and can be used to validate alarms and additionally monitor the the direct environment around it.

Product Benefits:











Secure Access Management and event recordings Centralised Control, User rights and access requests

Clear GIS model of devices and keys

IOT Smart Sensor available for additional features and security

Design and Integration into existing infrastructure

This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 1 of 14

System Overview

The platform controls the entire system from which all access requests are managed. The platform utilises a Linux operating system and server with a windows internet browser application for user access. The keys are preauthorised for access on an individual node basis. Parameters such as key serial numbers, lock and latch serial numbers and time intervals, are all utilised in the authorisation and authentication process to grant access to an individual user. The system is centralised, but user access can be from any location required, with specific user profile limitations on end users. The system supports a referenced GIS data application model to represent all Gridlocks and Smart keys located on the system.



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 2 of 14

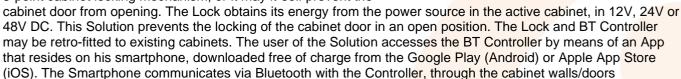
Smart Lock devices

Cabinet Lock Softkey Operated (Powered)

Product Description:

This solution is key-less in that the Lock with Bluetooth Controller is activated via an App on the Smartphone of the user. It is used in applications where access to street cabinets (and like enclosures) need to be controlled and managed. This is achieved with softkeys, programmable from a centralised, remotely located control room, to actuate specific Locks, in a specified time-frame and geo-cell. The Lock is secure, ingress protected for in-doors applications and maintenance free.

The Lock may be installed to prevent movement of an existing 3-point cabinet locking mechanism, or it may it-self prevent the





Technical Information:

MATERIALS

Lock body Aluminium alloy A356 (T6)

Locking pin and metal parts Stainless steel 304

Electronics (RS-232 Lock) Completely encased in set potting Electronics (BT Controller) ABS thermoplastic (IP68 rated)

SECURITY LEVEL

Tested to requirements of: Loss Prevention Standard 1654 and BS EN 12320: CEN 4

ENVIRONMENTAL

Operating temperature -10° C to 70° C, according to IEC 60068-2 POWER SOURCE -10° C to 70° C, according to IEC 60068-2 Active cabinet power; 12V, 24V or 48V DC

FASTENING BT Controller

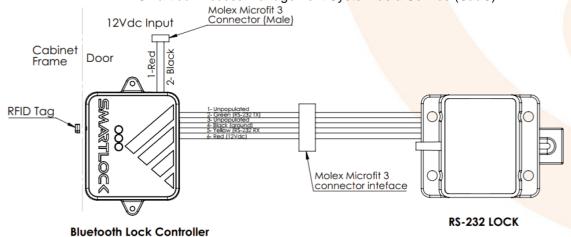
BT Controller Stainless Steel bolts (2x)
Lock Stainless steel bolts (4x)

TAMPER RESISTANCE Drill and tamper proof (fail in safe state)

MASS 1.3k

WARRANTY 24 months manufacturer's warranty

SOFTWARE Smartlock Access Management System as a Service (SaaS)



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 3 of 14

Smartlock Padlock

Product Description:

The The Fixed Padlock is used in applications where access to street cabinets needs to be controlled and managed from a remotely located control room.

The Padlock contains no internal battery and is energised by the Smartkey.

The Solution , via the Fixed Padlock, enforces closing of the cabinet door before locking is allowed. The Fixed Padlock may be retro-fitted to existing street cabinets or factory fitted to new street cabinets.



Technical Information:

MATERIALS

Body Shackle Electronics

SECURITY LEVEL

Tested to requirements of:

ENVIRONMENTAL
Operating Temperature
Water Ingress Protection
POWER SOURCE

SHACKLE PROTECTION

TAMPER RESISTANCE

MASS

DIMENSIONS WARRANTY

SOFTWARE

Stainless steel 316 Stainless steel 316

Solid state

Loss Prevention Standard 1654 and BS EN 12320

-10° C to 70° C, according to IEC 60068-2 IP67 certified, according to IEC 60529

Smartkey, via inductive circuit

Encased in Lock body

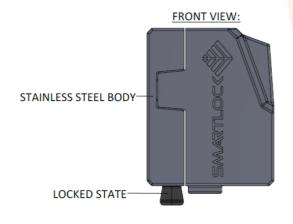
Drill and tamper proof (fail in safe state)

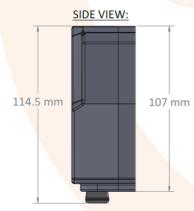
1.0Kg

105mm x 80mm x 41mm (locked)

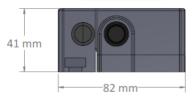
24 months manufacturer's warranty

Smartlock Access Management System as a Service (SaaS)





BOTTOM VIEW:



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 4 of 14

Smartlock Padlock

Product Description:

The Smartlock Padlock Solution is used in applications where access to outdoors facilities needs to be controlled. This is achieved with electronic keys, programmable from a centralised, remotely located control room, to actuate specific Padlocks, in a specified time-frame. The Padlock is highly secure, ingress protected, corrosion proof and maintenance free. It provides an automated register of the assets protect-ed by it, based on their GPS location.

The stainless-steel body of the Padlock prevents corrosion and its electronics are completely sealed. The shackle is removable and available in various lengths, resulting in a high-strength security solution with flexible application.



Technical Information:

MATERIALS

Body

Shackle Version 1 Shackle Version 2 SECURITY LEVEL

Tested to requirements of:

ENVIRONMENTAL
Operating Temperature
Water Ingress Protection
POWER SOURCE

SHACKLE CONFIGURATIONS

Standard Extended

SHACKLE PROTECTION TAMPER RESISTANCE

MASS

PACKAGING DIMENSIONS

WARRANTY SOFTWARE Stainless steel 316

Boron steel alloy with chromium plating Stainless steel 316, polished finish

Loss Prevention Standard 1654 and BS EN 12320

-10° C to 70° C, according to IEC 60068-2 IP67 rated, according to IEC 60529 Smartkey, via inductive circuit

Removable, 27mm clearance, 9.5mm diameter Removable, 42mm clearance, 9.5mm diameter Shrouded by body of Padlock

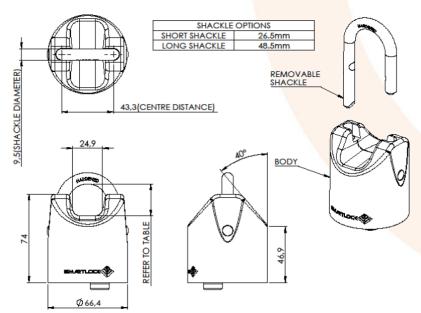
Drill and tamper proof (fail in safe state)

930g

145mm x 80mm x 80mm corrugated carton box

24 months manufacturer's warranty

Smartlock Access Management System as a Service (SaaS)



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 5 of 14

Swing-Handle Cabinet Lock



Product Description:

The Swing-handle Cabinet Lock is used in applications where access to 3-point cabinet doors, such as those found in surface based communications infrastructure. The Swing-handle Cabinet Lock is highly secure, ingress protected, corrosion proof and maintenance free. It provides an automated register of the assets protected by it, based on their GPS location, which is automatically recorded in the data base.

The Swing-handle Cabinet Lock contains no battery, since it obtains its energy from the electronic key. The stainless-steel lock body, moving parts and handle prevent corrosion and the Lock's electronics are completely sealed. The Swing-handle Cabinet Lock may be retro-fitted to existing doors, since its universal foot-print fits most standard cabinet door designs.

Technical Information:

MATERIALS

Lock body, swing handle assembly

Electronics

SECURITY LEVEL

Tested to requirements of:

ENVIRONMENTAL

Operating Temperature

Water Ingress Protection

POWER SOURCE

FASTENING

TAMPER RESISTANCE

MASS

DIMENSIONS (Packaging)

WARRANTY

SOFTWARE

Stainless steel 304 Sealed internal cavity

Loss Prevention Standard 1654 and BS EN 12320: CEN 4

-10° C to 70° C, according to IEC 60068-2

IP65 rated, according to IEC 60529

Smartkey, via induction circuit

Stainless steel bolts

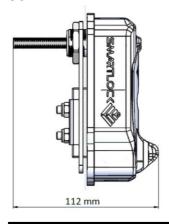
Drill and tamper proof (fail in safe state)

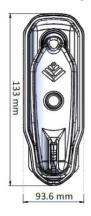
1.0kg

165mm x 125mm x 55mm

24 months manufacturer's warranty

Smartlock Access Management System as Service (SaaS)







This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 6 of 14

Electronic Seal Lock





Product Description:

The Electronic Seal is used in applications to manage access control closures and wall boxes, including co-location of splice closures. This is achieved with electronic keys, programmable from a centralised, remotely located control room, to actuate specific E-Seals, in a specified time-frame. The E-Seal is ingress protected, corrosion proof and maintenance free. It provides an automated record of all activities conducted with the Smartkey, thereby providing an audita-ble record to support the credibility of the process that was sealed.

The E-Seal contains no battery and obtains its energy from the elec-tronic key. The sealed body, moving parts and shackle prevent cor-rosion and its electronics are ultrasonically sealed.

Technical Information:

MATERIALS

Shackle **Electronics**

SECURITY LEVEL

Tested to requirements of:

ENVIRONMENTAL

Operating Temperature

Water Ingress Protection

POWER SOURCE

MASS

DIMENSIONS

WARRANTY

SOFTWARE

Stainless steel 304

Ultrasonically sealed

Loss Prevention Standard 1654 and BS EN 12320: CEN 1

-10° C to 55° C, according to IEC 60068-2

IP65 rated, according to IEC 60529

Smartkey, via induction circuit

50g

85mm x 39mm x 48mm

24 months manufacturer's warranty

Smartlock Access Management System as a Service (SaaS)



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtel

emtelle.com **Product Datasheet:** Page 7 of 14

Shutter Door Lock

Product Description:

The Barn/Shutter Door Lock is used in applications where access to large barn-type doors, such as those found on closed truck bodies, secure rooms, etc. needs to be managed by authorised personnel, complete with access control and management. This is achieved with electronic keys, programmable from a centralised, remotely located control room, to actuate specific Barn/Shutter Door Locks, in a specified time-frame. The Barn/Shutter Door Lock is highly secure, ingress protected, corrosion proof and maintenance free.

The stainless-steel rods of the locking mechanism, shroud and locking pin prevent corrosion and the lock's electronics are solid state, to ensure an extended life-span. It may be retro-fitted to existing doors.



Technical Information:

MATERIALS

Lock body

Locking pin, lock shroud,

lock mechanism, rods and

other metal parts

Electronics

SECURITY LEVEL

Tested to requirements of:

ENVIRONMENTAL

Operating Temperature

Water Ingress Protection

POWER SOURCE

FASTENING

Fixing

TAMPER RESISTANCE

MASS

WARRANTY

ABS Thermoplastic

Stainless steel 304

Solid state

Loss Prevention Standard 1654 and BS EN 12320: CEN 4

-10° C to 70° C, according to IEC 60068-2

IP67 rated, according to IEC 60529

Smartkey, via induction circuit

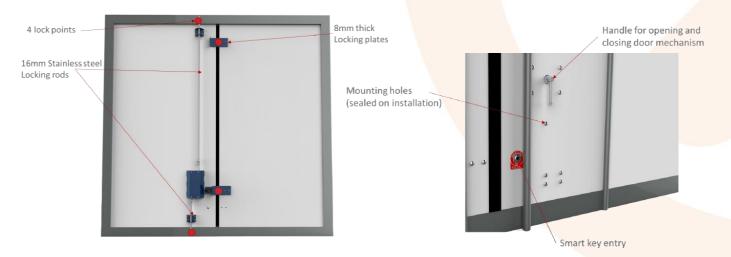
Stainless steel bolts and mounting plate

Drill and tamper proof (fail in safe state)

11kg

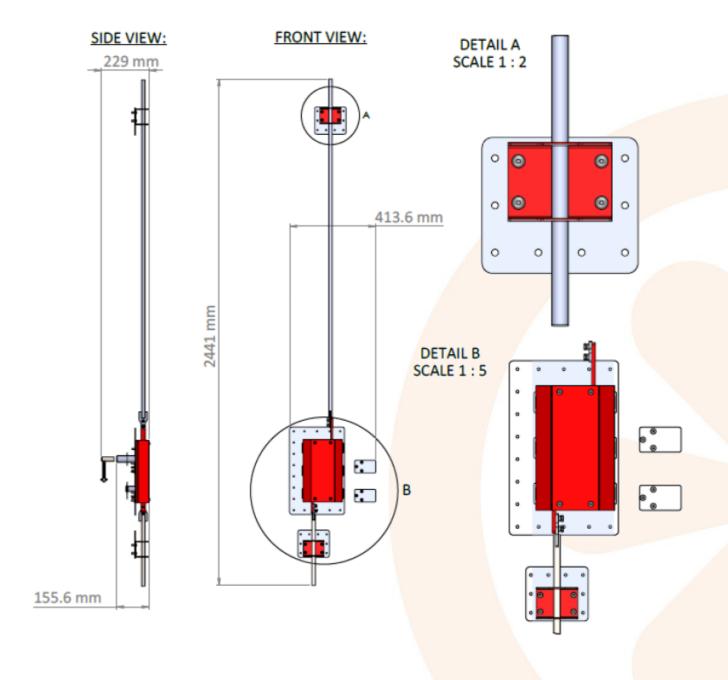
24 months manufacturer's warranty

SOFTWARE Smartlock Access Management System as a Service (SaaS)



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers, www.emtel

emtelle.com **Product Datasheet:** Page 8 of 14



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 9 of 14

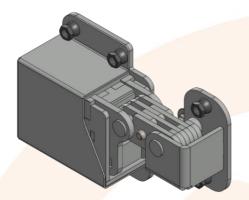
Perimeter Gate SmartLock

Product Description:

The Gate Lock is used in applications where access to perimeter fenced premises needs to be controlled and managed. This is achieved with electronic keys, programmable from a centralised, remotely located control room, to actuate specific Gate Locks, in a specified time -frame. The Gate Lock is highly secure, ingress protected, corrosion proof and maintenance free. It provides an automated register of the assets protected by it, based on their GPS location.

The Gate Lock contains no internal energy source, since it is energised by the Smartkey. The stainless -steel shroud and locking mechanism prevent corrosion and its electronics are solid state. This Solution prevents the locking of the Gate Lock whilst the gate is in an open position. The Gate Lock may be retro -fitted to existing fencing posts and gates. The latch accommodates a post -gap between 15mm and 40mm upon installation and

the sliding latch absorbs movement of the posts after installation. The Lock contains customisable design features.



Technical Information:

MATERIALS Lock body

Locking pin and other metal parts

Electronics

SECURITY LEVEL

Tested to requirements of:

ENVIRONMENTAL

Operating Temperature Water Ingress Protection

POWER SOURCE

FASTENING

Position

Fixing

TAMPER RESISTANCE

MASS

WARRANTY

SOFTWARE

ABS Thermoplastic Stainless steel 304

Solid state

Loss Prevention Standard 1654 and BS EN 12320: CEN 4

-10° C to 70° C, according to IEC 60068 -2 IP67 rated, according to IEC 60529

Smartkey, via induction circuit

Both left and right handed versions

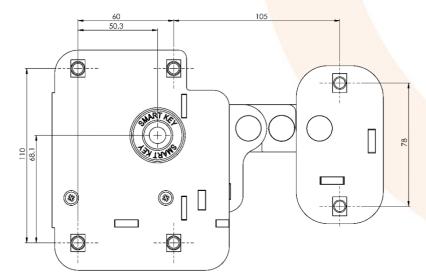
Stainless steel bolts (6x)

Drill and tamper proof (fail in safe state)

650a

24 months manufacturer's warranty

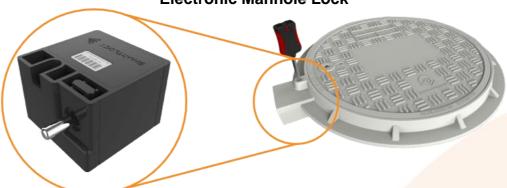
Smartlock Access Management System as Service (SaaS)



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 10 of 14

Electronic Manhole Lock



Product Description:

The Electronic Manhole Lock is a fully encapsulated (ie solid state) mecha-tronic dead lock. It requires no power or physical communication connection to operate.

It is certified to be water, dust and grit proof. It is maintenance free and resistant to a wide range of chemicals, making it suitable to be deployed in harsh and remotely located applications.

Technical Information:

MATERIALS Housing Locking pin

STANDARDS: Environmental

PRIMARY DIMENSIONS ALTERNATIVE OPTIONS WARRANTY SOFTWARE ABS thermoplastic

Stainless steel 304 polished

Tested to IEC 60068-2 and IEC 60529

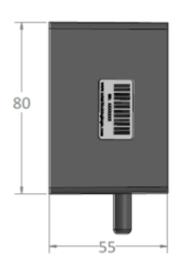
Operating temperature: -10°C to 55°C

Ingress protection: IP68 80mm x 80mm x 60mm

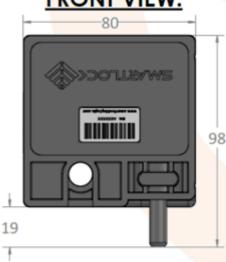
Variations in length of locking pin 24 months manufacturer's warranty

Smartlock Access Management System as Service (SaaS)

SIDE VIEW:



FRONT VIEW:



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 11 of 14

Smart Key devices

BLE-Key

Product Description:

The Bluetooth Low Energy (BLE) Smartkey is one of the main building blocks of this Solution. It uses Android® or iOS® based smartphones to operate any of the mechatronic locks in the Smartlock range. The Smartkey energises these locks with its internal battery, which is rechargeable.

The Bluetooth Smartkey manages all communication with the locks to authenticate the user and operate the system. The user interface is provided through an app, to proprietary software installed on a smartphone. Data communication to the software is provided by



pairing the smartphone of the authorised user to the Smartkey via a Bluetooth® interface. Access requests are preauthorised and downloaded to Smartkeys, uniquely assigned to users, via the smartphone.

The Bluetooth Smartkey captures all events in a log file and updates the management software of all activity and statuses via the smartphone. As a hardware protection feature, the Smartkey can be disabled at the central platform, should the need arise. In addition, users can be GPS located by the solution.

Technical Information:

MATERIALS

ABS plastic Body Metal parts Stainless steel 316

ENVIRONMENTAL Operating Temperature -10° C to 70° C, according to IEC 60068-2

Water Ingress Protection Splash proof

POWER SOURCE 2.0 Ah lithium-ion battery COMMUNICATION

Upstream (to mobile phone) Bluetooth (Low Energy)

Standard encrypted mobile network comms Upstream (to software) Downstream (to lock) Proprietary comms via probe antenna

MASS 120g

EXTERNAL DIMENSIONS

Antenna lengths WARRANTY SOFTWARE

INTERNAL MEMORY

COMPATIBLE SYSTEMS EXTRAS

60mm x 26mm x 113mm (various antenna lengths available) 43mm, 70mm, 150mm

24 months on material and workmanship Smartlock Access Management, SaaS Storage of 100x access rights and related data

Monitoring of internal environment of access nodes (via IoT)

Carry case kit, including charger

SIDE VIEW: 44.5 mm 127 mm 116.5 mm **BOTTOM VIEW: FRONT VIEW:** 26 mm LED & LOCK/UNLOCK BUTTON ABS PLASTIC HOUSING 150mm SMART KEY ANTENNA **BLUETOOTH SMART KEY CONFIGURATIONS:** ANTENNA LENGTH ANTENNA LENGTH 11 ANTE<u>NNA LENGTH (AS CURRENTLY DISPLAYED)</u> USB CHARGER PORT

This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtel

emtelle.com **Product Datasheet:** Page 12 of 14

SIM-Key

Product Description:

The SIM Smartkey is one of the main building blocks of this Solution. It obtains and stores access rights to operate any of Smartlock's electronic locks and seals. The SIM Smartkey energises the locks with its rechargeable battery.

The SIM Smartkey manages all communication with the locks to authenticate the user and operate the system. Data communication to the software is provided by its internal mobile phone modem. Access requests are pre-authorised and downloaded to the internal memory of the SIM Smartkey, which has been uniquely assigned to a specific user.

The Smartkey captures all events in a log file and updates the management software of all activity and statuses via its internal mobile phone module. As a network protection feature, the Smartkey can be disabled from the central platform in real time, should the need arise. In addition, users can be GPS located by the Solution. The Smartkey is programmable from a centralised, remotely located control room, to actuate specific electronic locks, in a specified time-frame. The electronic locks are energised by the Smartkey, by means of induction.



Technical Information:

MATERIALS

Body Motel parts

Metal parts

ENVIRONMENTAL

Operating Temperature -

Water Ingress Protection

POWER SOURCE

COMMUNICATION

Upstream (to software)

Downstream (to lock)

MASS

EXTERNAL DIMENSIONS

Antenna lengths WARRANTY

SOFTWARE

INTERNAL MEMORY

COMPATIBLE SYSTEMS

EXTRAS

ABS plastic

Stainless steel 316

10° C to 70° C, according to IEC 60068-2

Splash proof

2.0 Ah lithium-ion battery

Standard encrypted mobile network comms

Proprietary comms via probe antenna

125g

60mm x 26mm x 113mm (various antenna lengths available)

30mm, 57mm, 150mm

24 months on material and workmanship Smartlock Access Management, SaaS

Storage of 100x access rights and related data

Monitoring of internal environment of access nodes (via IoT)

Carry case kit, including charger

Finger print authentication of registered user



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 13 of 14

Internet of Things devices

Smartlock IOT Sensor

Product Description:

The Smart Sensor device is a narrowband IOT based data acquisition unit (including alarms), utilised for monitoring security and environmental related thresholds, within nodes of a distributed telecommunication network. It is also used to gather trend data of the monitored parameters, at predefined intervals, for statistical analysis. This unit is a key component in gathering and communicating these measures and conditions to a specified monitoring software application.

The standard Sensor measures vibration (and impact) and the presence of light, whilst the environmental Sensor measures these as well as temperature and humidity.



When pre-set values of the measured variables are detected, the Sensor immediately communicates such breach to the central software application of Smartlock, where it is correlated with access rights granted. Alarm alerts are generated in the event of security breaches. In addition, the unit communicates its own health to the operations centre at regular intervals.

Technical Information:

MATERIALS

Body

ENVIRONMENTAL

Operating Temperature

Water Ingress Protection

POWER SOURCE

COMMUNICATION

Upstream (to Software)

MASS

EXTERNAL DIMENSIONS

WARRANTY

SOFTWARE

ALTERNATIVE OPTIONS

ABS plastic

-10° C to 70° C, according to IEC 60068-2

IP68 (Standard version)

48Ah 3.6V lithium ion battery

Standard encrypted IoT protocols for NB-IoT, Sigfox and LoRa

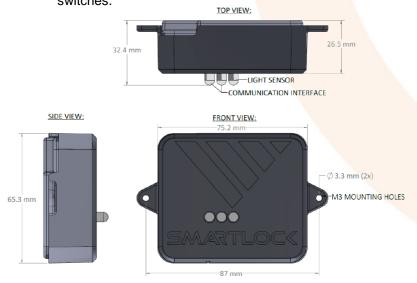
85g

84mm x 65mm x 32mm

24 months manufacturer's warranty

Smartlock Access Management System as a Service (SaaS)

Monitoring of a maximum of a further 4x digital (wired) variables, via On/Off toggle switches.



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website. This document is protected by copyright (c) Emtelle Group [2021]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers. www.emtelle.com

emtelle.com Product Datasheet: Page 14 of 14