

# Pamex

## Enkore Smart EKS-WR1N

*A Multi-Family Door Access Control Solution*

---

# Hardware Installation Guide

## Table of Contents

---

Hardware Installation	3
Wall Reader – Enkore Smart EKS-WR1N	3
Features	3
Hardware Specifications	3
Front View	5
Back View	5
Wiring Pigtail Rated note	6
Basic Door Installation Wiring	6
Surface Mounting	7
Mounting to single gang recessed outlet box	7
Dimensions	8
Installation Guide	9
Enkore Smart EKS-WR1N	9
Operation Modes	11

# Hardware Installation

## Wall Reader – Enkore Smart EKS-WR1N

### Features

- IP55 Weatherproof suitable for external use
- Advanced tamper detection
- Wi-Fi enabled access controller connected directly to existing routers
- Lock and unlock lockset remotely (Wi-Fi)
- MIFARE DESFire EV1/EV2 credential required (sold separately)
- High-Security authentication with 128-bit AES Encryption
- 6000+ cards/fobs and 10,000 activity logs memory capacity
- Alert email notification
- Access time control for both areas and users
- Passage mode – temporarily allow unrestricted access
- Privacy mode – temporarily disable all user access
- Lockout functionality
- Dual LED Status Indicators for Visual communications
  - Bi-color LED Status Indicator(red, green)
- Customizable I/O
  - Main relay
  - REQUEST-TO-EXIT input
- Remote configurable using MF-Admin server

### Hardware Specifications

#### Mechanical (Dimensions)

Enkore Smart EKS-WR1N : 7.45" (H) X 1.77" (W) X 1.28" (D)

#### Electrical

- NFC reader
- Supports ISO/IEC 14443 A/MIFARE and EV1/EV2 desfire

Operating distance in Read/Write support Max. 2cm

- WIFI 11.b/g/n

Operating distance support 100feets

- Input Voltage: 12/24 Volts DC, 25VDC Absolute Max. rating  
Operating Current: 30 mA typical, 150 mA max

#### Output Ratings

- Main Relay: Form "C" 2 Amps @ 28 Volts max

- Electrical life Min. 100,000 operations at 2A resistor load
- Electrical life Min. 1,000,000 operations at 1A electrical lock

#### Environmental

- Temperature: -31°F to 150°F (-35°C to 66°C)
- Humidity: 95% Non-condensing

## Front View

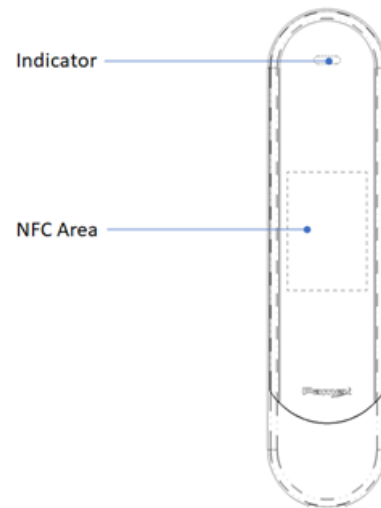


Figure 1 : Enkore Smart EKS-WR1N Front

## Back View

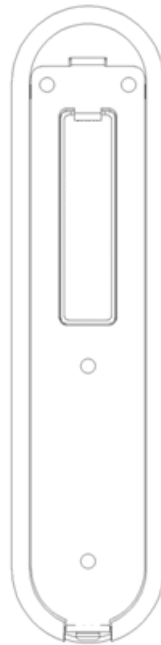


Figure 2: Enkore Smart EKS-WR1N Back

## Wiring Pigtail Rated note

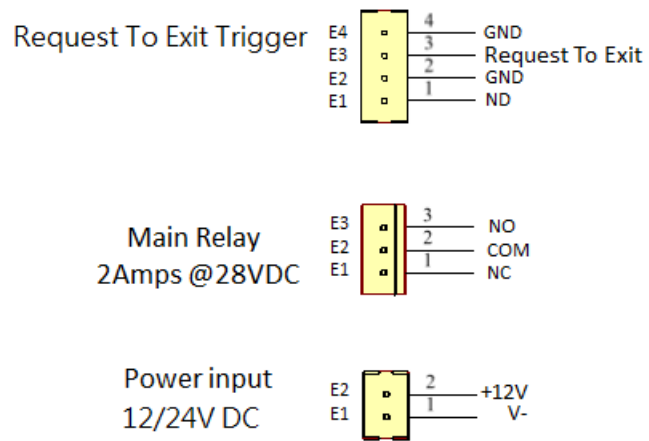


Figure 3: Enkore Smart EKS-WR1N Wiring Pigtail Rated note

## Basic Door Installation Wiring

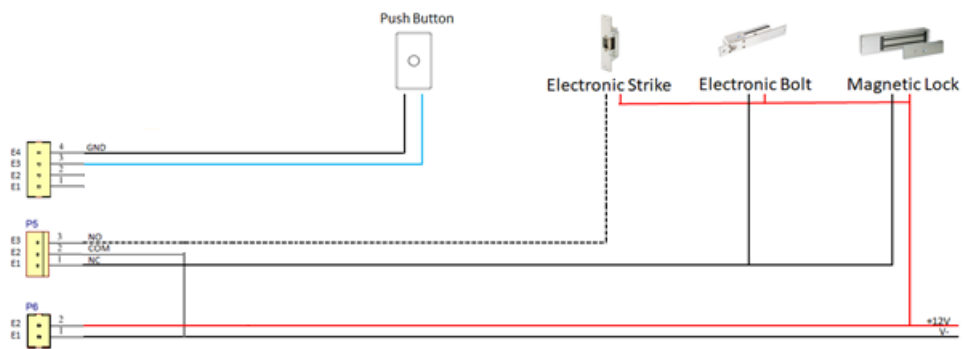


Figure 4: Enkore Smart EKS-WR1N Basic Door Installation Wiring

## Surface Mounting

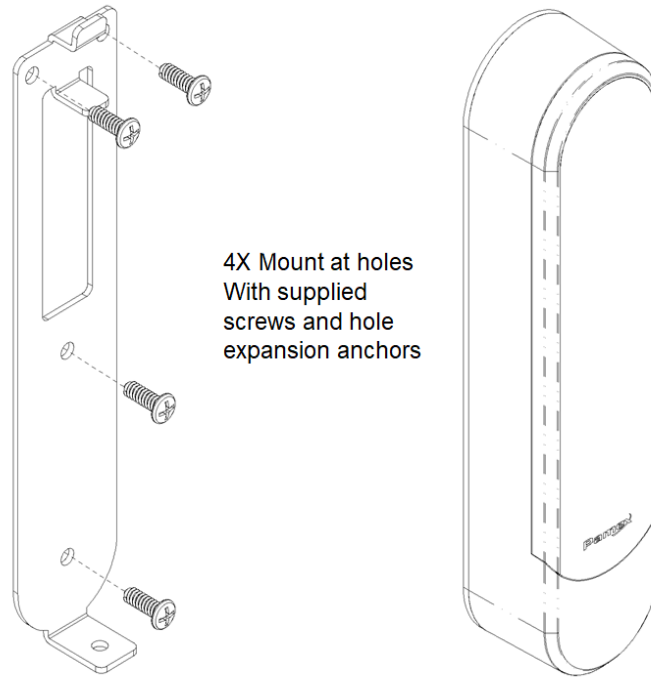


Figure 5 : Enkore Smart EKS-WR1N Surface Mounting

## Mounting to single gang recessed outlet box

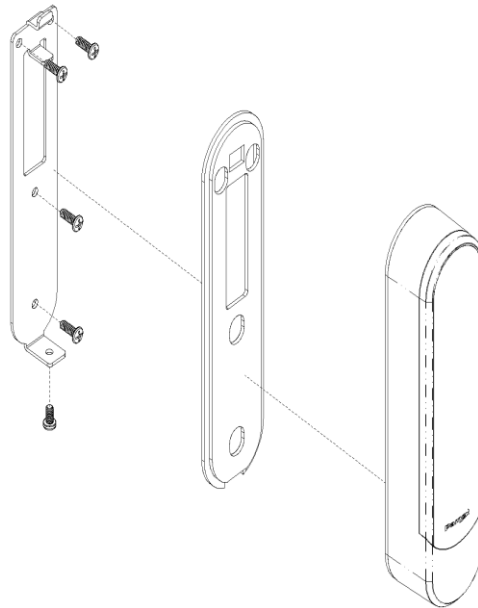


Figure 6 : Enkore Smart EKS-WR1N MOUNTING TO SINGLE GANG RECESSED OUTLET BOX

## Dimensions

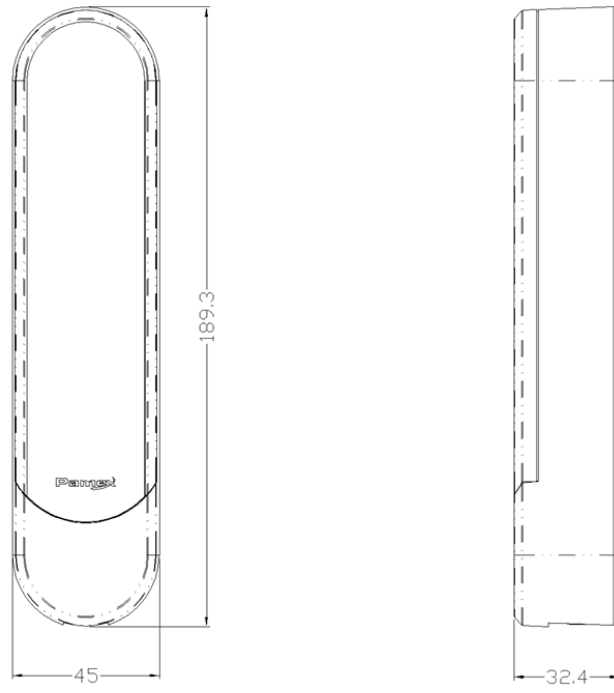


Figure 7: Enkore Smart EKS-WR1N



## Installation Guide

### Enkore Smart EKS-WR1N

- 1) Screw the back plate to lock base with three 4mm\*12mm self-tapping screws. See the picture below.



- 2) Place the waterproof rubber on the back of the Wall Reader. See picture 1&2.



- 3) Before fastened Wall Reader, please ensure the waterproof rubber is installed.

Align the hole with the hook on the top of the back plate. See picture 3,  
Push down the Wall Reader. See picture 4.  
Tighten up the Wall Reader with a 4mm\*8mm screw. See picture 5.



## Operation Modes

The Enkore Smart Door Reader EKS-WR1N can function on one of the three modes mentioned below.

- **Card Mode**  
Use NFC card to unlock. While the NFC card is being reading, Phone mode and Link mode will be temporarily disabled
- **Phone Mode (Bluetooth)**  
In this mode, you need to download a EnkoreSmart app and register an account. You can operate the lock after a successful pairing to the lock via the Bluetooth.
- **Link Mode (WIFI)**  
Under this mode, and if connecting the door reader to a remote server, the door reader will be capable of providing the remote control management.

## FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and a human body