# MTPADPBK-EH-SA

Surface Mount, Standalone combined keypad and proximity reader with RS485 and Blue back-lit keypad buttons

HID COMPATIBLE




The **MTPADPBK-EH-SA** is a standalone, surface mount combined access control keypad & proximity reader with blue back-lit metallic buttons, making it ideal for high security applications. Its robust, compact design makes it perfect for mounting onto a doorframe.

It has an RS485 BUS interface, which is ideal for connecting additional I/O board devices including the: **RB0408** lift interface relay unit, **RU2** remote relay unit and both the **RTT** series and **DINRTT** series exit button/relay units expanding the overall relay outputs and the access control options.

### Combined keypad & proximity reader

Standalone access control keypad and EM/HID proximity reader.

### Surface mount and compact

Robust, hard-wearing compact design.

### Back-lit keypad buttons

Blue back-lit metallic keypad buttons to assist the partially sighted.

### 1000 codes & proximity fobs/cards

Program up to 1000 user access codes (up to 8 digits in length) and proximity fobs/cards.

### 1 programmable relay output

1 relay output, expandable up to 9 relays in combination with the **RB0408** lift interface relay unit.

### Adjustable relay times

Programmable relay times 01 - 99 seconds or 00 for latching 'toggle' mode.

### Push to exit input

Switched 0V push to exit input.

### For indoor or outdoor installation

Surface mount internally or externally.

CODELOCK PROXIMITY BACK LIGHT IP65

IP 65

## Other key features of the MTPADPBK-EH-SA

- Resin potted electronics in a high impact ABS plastic housing with a matt black finish.
- Adjustable backlight: ON/OFF, dimmed or on button press.
- Tamper protection (2x anti-tamper inputs).
- Invalid access code & fob/card lockout feature.
- Amber LED and internal buzzer for programming and status indication.
- Green and Red LED to indicate output activation.
- Power input 12Vac/dc or 24Vac/dc.

## Technical characteristics

| | MTPADPBK-EH-SA |
|---|---|
| Description | Standalone, combined keypad and EM/HID proximity reader (1000 codes & fob/cards, 1 relay) with blue back-lit metallic keypad buttons and RS485 bus. |
| Materials | High impact ABS plastic housing in a matt black finish. |
| Module protection | **IP65** ingress protection rating. |
| Buttons | Metallic keypad buttons: **1 - 9**, **0**, **A** and **B** all back-lit blue. |
| Status LEDs | **Green LED** (behind digit 1) = accept/relay activated, **red LED** (behind digit 2) = access denied (also for relay status output 2 when connected with **RTT/DINRTT** exit buttons and **RU2** remote relay device) and **amber LED** (behind digit 3) = keypad button press and programming menu status. |
| Back light illumination and internal buzzer adjustments | Yes, through the programming menu via the keypad. Internal buzzer can be enabled (**ON**) or disabled (**OFF**). The back-lit buttons can be enabled (**ON**) or disabled (**OFF**), they can also be dimmed or be configured to switch **ON** when a keypad button is pressed. |
| Proximity reading type | EM4002/41000 and HID (125kHz). |
| Fob/card read range | Up to 4cm. |
| Compatible proximity fobs/cards | Fobs include: **PBX1E** (grey ABS fob, EM format 125kHz) and **PBX1E-LG** (grey ABS fob with custom logo, EM format 125kHz). Cards include: **PBX2** (thin ISO card, EM format 125kHz) and **PBX2C** (thick ISO card, EM format 125kHz). HID 125kHz fobs/cards. |
| Programming | Programming carried out directly via the keypad. |
| User capacity | Up to 1000 users total (a combination of codes and/or proximity fobs/cards). |
| Code length | User access code between 1 - 8 digits in length. |
| User entry mode | User access code **or** proximity fob/card access **or** a combination of both an access code and proximity fob/card access. |
| Security measures | 30 second lockout after 8 consecutive invalid user access code entries. |
| Pre-wired cable, no. of wires and colours | 0.5m pre-wired cable (11 wires), core colours: 12/24Vac/dc power input: **red** = **+12V/+24V**, **black** = **0V(GND)**. RS485 bus: **pink** = **A**, **violet** = **B**. PTE input: **blue** = **GND**, **orange** = **PB** (push-to-make). Anti-tamper inputs: **brown** = **T1**, **green** = **T2**. Relay: **grey** = **NC**, **yellow** = **COM** and **white** = **NO**. |
| Relay (volts/current) | 1 relay: **grey** = **NC**, **yellow** = **COM** and **white** = **NO**, (12/24Vac/dc at 2A). |
| Relay times | Relay times **01 - 99** seconds **or** **00** for latching 'toggle' mode. |
| PTE input | Yes, switched 0V push-to-make input (see above). |
| RS485 bus | Yes, **A/B** (see above). Used to network with **RB0408** lift interface, **RTT/DINRTT** exit buttons and **RU2** remote relay. Also used for firmware updates. |
| Dimensions (mm) | 51 (W) x 92 (L) x 27 (D). |
| Working voltage | 12Vac/dc **or** 24Vac/dc power input. |
| Current rating | 100mA (max.). |
| Working temperature | -20° ~ +50°C. |

PBX1E



PBX1E-LG

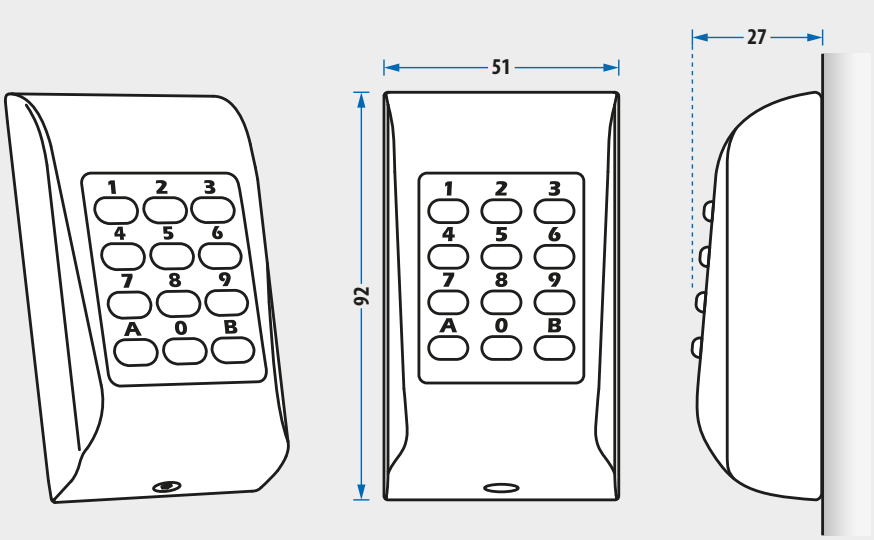



PBX2



PBX2C






(measurements in mm)



**Surface mount, hard-wearing compact design.**

## Status Indication LEDs



### The Green LED

**(behind digit 1)**

Indicates the user access code or proximity fob/card has been accepted. Activates the relay.



### The Red LED

**(behind digit 2)**

Indicates the user access code or proximity fob/card has been denied. Also used to indicate the relay status (output 2) when connected to an RTT/DINRTT exit button and RU2 remote relay device.



### The Amber LED

**(behind digit 3)**

Will illuminate whenever a keypad button is pressed. Also switches ON when in programming mode.

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DS-MTPADPBK-EH-SA-ENUK-V2-0-08/10/26

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