



# SYMMETRY BLUE BLUETOOTH ACCESS CONTROL READERS

One of the latest innovations in Access Control is the use of an Android or iOS Smart Phone in place of a plastic card. The new AMAG readers address that trend with a secure and cost effective solution for any Symmetry user.

The Symmetry Blue reader range combines Bluetooth Low Energy (BLE) with conventional card reading capabilities for integrated access control.

The Symmetry Blue readers work with Symmetry Apps for Android and iOS using suitable smart phones. They also read either NXP MIFARE and DESFire smart cards or 125khz proximity cards depending on the model selected.

The readers are designed to work with AMAG Symmetry software, and any Symmetry door controllers which support an industry standard wiegand interface.

The Symmetry Apps are free of charge and do not require a license. Enrollment of smart phones with the Symmetry system is straightforward and does not require a separate portal or third party subscription.

Users can be provided with either a card, the app on their smart phone or both. The smart phone is recorded within Symmetry as a separate credential and can share the same access rights as a card.

Enrollment is either through USB encoder or by input of device ID which is viewable through the app.

Symmetry Blue readers can be installed in place of an existing card reader or alongside it for situations where existing card technology is not being changed.

## KEY FEATURES

- Combined Bluetooth Low Energy (BLE) and smart or proximity card readers with keypad for a wide range of security applications
- Designed to work across the whole Symmetry product range
- No third party portal or licensing required
- Works with most Android or Apple smart phones
- Fits standard electrical back boxes
- Reads MIFARE, DESFire, EV1 & EV2 or 125khz proximity cards depending on the model selected
- Uses Wiegand communication between the reader and the door controller
- Works with short range similar to a card
- Suitable for indoor or outdoor installation
- Integrated door pre-held warning buzzer
- Light Bar feedback for card accepted or rejected
- Optional PIN for higher security

**MODELS****Bluetooth Low Energy + Card Readers with Keypad**

- **934-KP** – BLE, MIFARE Classic, MIFARE Plus, DESFire, DESFire EV1 & EV2, SmartMax
- **930-KP** – BLE, 125KHz proximity
- **938-KP** – BLE, MIFARE Classic, MIFARE Plus, DESFire, DESFire EV1 & EV2, 125KHz proximity, SmartMax

**Bluetooth Low Energy + Card Readers**

- **934** – BLE, MIFARE Classic, MIFARE Plus, DESFire, DESFire EV1 & EV2, SmartMax
- **930** – BLE, 125KHz proximity
- **938** – BLE, MIFARE Classic, MIFARE Plus, DESFire, DESFire EV1, 125KHz proximity, SmartMax

**Bluetooth Low Energy + Card Readers - Mullion**

- **924** – BLE, MIFARE Classic, MIFARE Plus, DESFire, DESFire EV1 & EV2, SmartMax
- **920** – BLE, 125KHz proximity

**Bluetooth Low Energy USB Encoder**

- **936** – USB Enrollment of Android and iOS Smartphones

**SPECIFICATIONS****Dimensions – Wallswitch**

- Width = 3.3" (83mm)
- Height = 5.1" (130mm)
- Depth = 0.8" (18mm)
- Pigtail = 18.0" (457mm)

**Dimensions – Mullion**

- Width = 1.7" (43mm)
- Height = 5.1" (130mm)
- Depth = 0.8" (18mm)
- Pigtail = 18.0" (457mm)

**Dimensions – USB**

- Width = 3.0" (76mm)
- Height = 3.0" (76mm)
- Depth = 0.6" (15mm)

**Communication Distances**

- Symmetry Door Controller to Symmetry Blue reader = 500ft (150m)
- Read Range 1" to 4" (25 to 100mm) dependent on smart phone model

**Operating Environment**

- -40°F to +158°F (-40°C to +70°C)
- IP65 Rated

**Power Requirements**

- Nominal 12VDC
- Maximum current consumption 150mA (Average 100mA or less)

**Software Versions**

- Android 5 or later
- iOS 8 or later

**APPROVALS****Radio regulatory approvals**

- FCC Part 15
- IC RSS

**EMC Type Testing**

- EN301489
- EN302291 (13.56 MHz)
- EN300330 (125 KHz)

**Access control product testing**

- UL294 Pending (938-KP and 938 only)



sales@amag.com  
www.amag.com