# XP-K-MF-RS

*XPRO RANGE - 13.56 MHZ RFID KEYPAD*

The RFID keypad (XP-K-MF-RS / XP-K-MF-RS-X) is compatible with our WS4 Web server controller.

It can read 13.56 MHz credentials and communicate with our custom RS-485 protocol.

The configuration and the firmware update can be done using our Product Manager software via the USB-C input on the back of the reader or with a programming card.

The XP products are coming with the Xsecure® key, but only products ending in -X are coming with the Xsecure® configuration by default to ensure data protection.
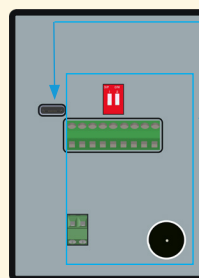


## FEATURES

- Mounting: Surface mount
- Housing: Polycarbonate copolymer (UL94)
- Internal buzzer: With adjustable intensity using software
- Communication: RS-485
- Keys: Blue illuminated and recessed touch sensor keys
- Reading range: Up to 9 cm, depending on the tag type and size
- Operating frequency: 13.56 MHz
- Tamper protection: Yes
- Wiring: Terminal block
- Operating voltage: 9 - 15 V DC
- Max. consumption at 12 V DC: 100 mA
- Supported Credentials: Xsecure®, Mifare CSN (Classic, DESfire, Plus, Ultralight), Mifare DESfire (EV1, EV2, EV3)

### ENVIRONMENTAL FEATURES

- Environmental rating: Indoor/ Outdoor IP65 (resin potted)
- Operating temperature: -30°C to +70°C
- Operating humidity: 5% to 95% RH (non-condensing)
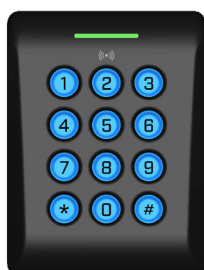- Impact protection rating: **IK 10**

### CONNECTIVITY
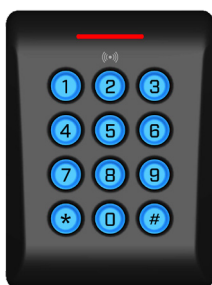


**USB-C:** For configuration and firmware update

**Wire terminals**
- Power
- RS-485

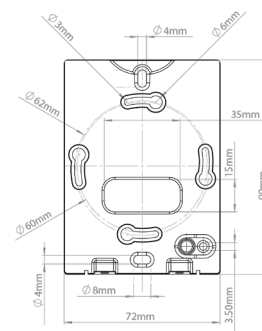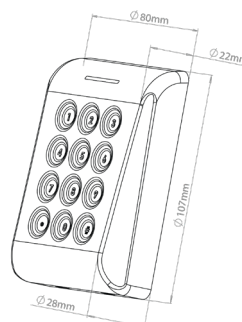## LED



Green
**LED**
Access granted



Red
**LED**
Access denied

## DIMENSIONS & WEIGHT



~0.16 kg

**Back plate**
*Back plate compatible with UK, EMEA and US standard and most electrical gang mountings*

▽ **Web server interface**

## WS4

The WS4 is a simple and powerful access control system with its own built-in web server. There is no software to install; configuration is done simply via an internet browser.

Very easy to install and use as all pages are responsive.
It offers easy visualization of the status of the system and quick access to different menus directly from the home window.

## VARIANTS

| References | Functions and credentials | | | Firmware Upgrade/Programming | |
|---|---|---|---|---|---|
| | **13.56 MHz CSN**<br>(ISO 14443-A (MIFARE®), ISO 15693, HID® iClass, NFC®) | **Custom Encryption**<br>DESFire® EV1, EV2 & EV3 | **Mobile ID** | **USB-C** | **Default Credential** |
| XP-K-MF-RS | V | V | X | V | Mifare CSN |
| XP-K-MF-RS-X | V | V | X | V | **X**secure® |

## ACCESSORIES

**PROX-USB-X**

RFID USB desktop device.
RFID configurable R/W reader with keyboard emulation (Windows, MAC, Linux).
It reads Mifare classic, Mifare DESfire, NFC, ISO 15693 and Xsecure® cards.

**XP-SPACER**

Surface mount spacer.
With knock-outs on each side and fitting perfectly to the housing backplate, it is the ideal accessories to wire the reader easily if there is not a lot of room for connecting the reader during the installation.

**XP-ATP**

This ABS cover is not compulsory for external use but recommended if you wish to protect the reader further against harsher weather conditions, UVA and dust. It offers also a significant level of vandal resistance if needed.

**Mifare Fobs & Cards**

Different contactless fobs and cards:
- Mifare available with 1 KB and 4 KB memory.
- Mifare DESfire EV3 available with 2 K memory.
- Xsecure® Mifare DESfire EV3 available with 2 K memory.
Available in different types of support:
ISO cards and ABS key fobs.

# **X**secure®

The **Xsecure®** solution is based on the concept of writing the identifier as **data on pre-coded MIFARE® DESFire® EV3 13.56 MHz cards and fobs**.

**X**secure® enables each card access key to be **distinct and unique**, produced through **an irreversible diversification process**. As a result, the data on **the card is encrypted and sealed** again, with an error checking against spoofing.

**Only the reader and the production card encoding system are aware of this operation.**

XPR encodes the cards and validates the identifiers issued **to avoid duplication.**