



LAUNCHING OUR
LATEST HIGH-SECURITY
XSECURE® SOLUTION





Xsecure®

XPR's commitment to innovation goes beyond simply meeting industry requirements. We are redefining technological standards to produce high-security solutions that will provide the finest card security available on the market today. Therefore, we proudly present our Xsecure solution that will raise your security level.

WHAT IS XSECURE?

Xsecure is the XPR encryption and credential solution. Access control systems can use this data for user identification instead of a built-in Card Serial Number (CSN). The concept uses native AES encryption of the Mifare DESFire cards, combined with a key diversification algorithm, additional data encryption, and data validity checking. Key sets and encryption processes are known only to the secure reader.



WHY IS CREDENTIAL SECURITY IMPORTANT?

As the most exposed part of RFID systems, cloning RFID cards or simulating Card Serial Numbers has become a common way of hacking an access control system. Therefore, a security upgrade is needed to secure user credentials.

WHY XSECURE?

The **Xsecure** concept uses Mifare DESFire EV3 tokens. Above that, each token access key (key to read data on the card) is unique, resulting from a non-reversible diversification process. Furthermore, the card's data is encrypted and sealed, with error checking to prevent spoofing. This process is limited to the reader and card encoding system in production. To prevent duplicates, tokens are encoded by a single company that controls the issued IDs.



HOW DOES IT WORK?

✔ **XPR** creates cards with a **unique ID** protected by a different key for each card.



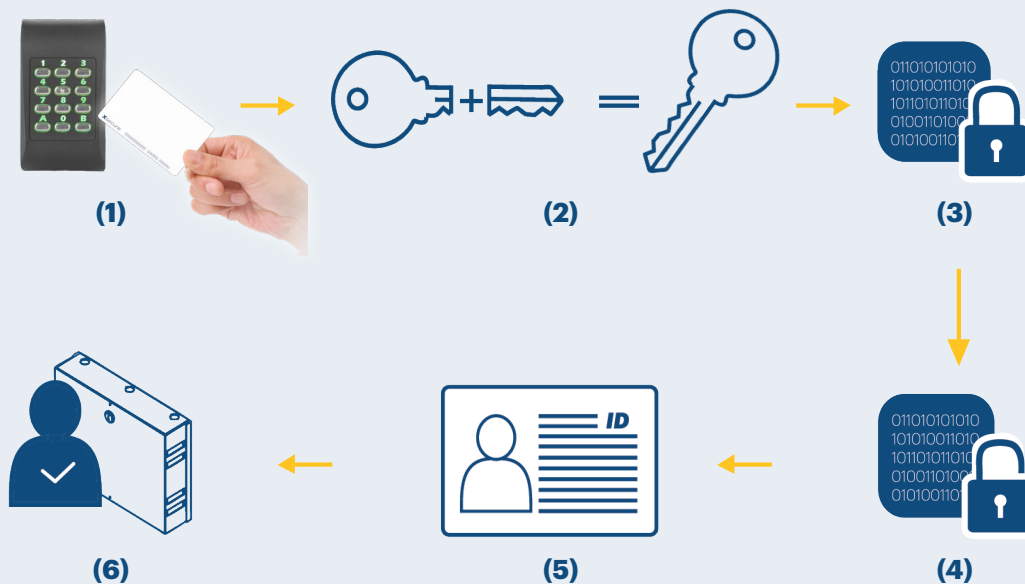
✔ Configuring a secure card reader to read only **Xsecure** cards by the installer or end user.



Secure Communication
AES & Key Diversification

Communication Protocols
Wiegand, RS-485, OSDP

When the reader detects a card **(1)**, it assembles the card access key (unique for each card) **(2)**, reads the card content **(3)**, decrypts the card content **(4)**, extracts the ID **(5)**, and sends it to the controller **(6)**.



The **Xsecure** solution is based on the concept of writing the identifier as data on pre-coded **MIFARE® DESFire® EV3 13.56 MHz** cards. The Xsmart range of readers and keypads is compatible with our online (EWS) and web server (WS4) solutions. The Xsmart range is delivered in **Xsecure** encryption mode to ensure data protection.








xpr

Xsmart

XSMART RANGE COMPATIBLE WITH XSECURE



REF.: XS-MF-W-X (for EWS)
XS-MF-RS-X (for WS4)

-  up to 6 cm
-  -30°C to +65°C
-  5% to 95% RH (non-condensing)
-  9 - 15 V DC
-  IP 65
-  terminals
-  IEC 60839-11-1:2013

13.56 MHz RFID READER

The **Xsecure** solution is offered for both RFID reader references.








According to the product reference, one is used with the **RS-485 protocol**, which is compatible with our **WS4 web server controller** and the other with the standard **Wiegand protocol**, which is compatible with the **EWS controller**.

They read Mifare DESFire EV3 **Xsecure** credentials for high security identification of tags.

The reader housing comes in black ABS and is surface mounted.



REF.: XS-K-MF-W (for EWS)
XS-K-MF-RS-X (for WS4)

-  up to 6 cm
-  -30°C to +65°C
-  5% to 95% RH (non-condensing)
-  9 - 15 V DC
-  IP 65
-  terminals
-  IEC 60839-11-1:2013

13.5 MHz RFID KEYPAD

The **Xsecure** solution is offered for both RFID keypad references.

According to the product reference, one is used with the **RS-485 protocol**, which is compatible with our **WS4 web server controller** and the other with the standard **Wiegand protocol**, which is compatible with the **EWS controller**.

They read Mifare DESFire EV3 **Xsecure** credentials for high security identification of tags.

The keypad housing comes in black ABS and is surface mounted. The metal keys are backlit.

Readers and keypads compatible with software and interface:

