

# ATX HYBRID

ATEX (EN60079) & IECEx reader  
125 kHz + 13.56 MHz chips



## Multi-technology access control in explosive environments

Compatible  
**SECARD**  
Security Management System

The ATX **HYBRID** is an ATEX & IECEx certified proximity reader for all your RFID dual frequency access control applications in explosive environments. The **HYBRID** brings together 125 kHz and 13.56 MHz MIFARE® & DESFire® EV1 identification technologies. STid's range of ATX RFID products can be used to meet all your contactless identification needs in the chemical and petrochemical industries, refineries or nuclear power plants.

### ▶ ATEX & IECEx certifications

ATX **HYBRID** readers are ATEX (EN60079) & IECEx certified, in accordance with the two relevant European Directives (99/92/EC and 94/9/EC) and are designed for personal identification applications in explosive environments. The EX II 2 GD IP66 explosion-proof casing is well-suited to the chemical, petrochemical and nuclear industries, among others.

### ▶ Dual frequency reader for easy migration

The ATX **HYBRID** reader brings together 125 kHz and 13.56 MHz. If you need to set up a complex multi-site configuration, the reader can be used to read a range of different cards: technology migration becomes easy, whatever the configuration you use.

### ▶ High security identification

The ATX **HYBRID** 125 kHz + 13.56 MHz readers support the latest MIFARE® contactless technologies and their new data protection features. They use the latest security algorithms of these chips: Crypto1, DES, TDES, AES, etc.

### ▶ Card Configuration feature

The ATX **HYBRID** 125 kHz + 13.56 MHz readers are completely user programmable with configuration cards. These cards are made to set up card reading security parameters (keys) and all the functional parameters (protocol, LED operation, protection, etc.).

| 125 kHz   | 13.56 MHz  |
|---|--|
| EM4102<br>EM4150<br>HID<br>Nedap<br>Crosspoint - Argina | MIFARE Ultralight® & Ultralight® C<br>MIFARE® Classic & Classic EV1<br>MIFARE Plus®<br>MIFARE DESFire® EV1 & EV2<br>SMART MX<br>iCLASS® & PicoPass®<br>NFC |

### ▶ Marking

EC type examination certificate:  
BKI 08 ATEX 0048  
Type approved: GUB  
Ex II 2 GD  
(G: Gas / D: Dust)  
Ex d IIC T5  
Ex tD A21 T100°C IP66



# ATX HYBRID

ATEX & IECEx reader - 125 kHz + 13.56 MHz

## Specifications

|                               |  |
|-------------------------------|--|
| Operating frequency/standards | 125 kHz<br>13.56 MHz: ISO14443A, ISO14443-3B (PUP1), ISO18092  |
| Chip compatibility            | EM4102 / EM4150 / HID / Nedap / Crosspoint - Argina<br>MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, MIFARE® DESFire® EV1 & EV2, SMART MX, iCLASS®, PicoPass®, NFC  |
| Functions                     | Read only: private ID (sector/file) or secure protocol (Secure Plus)   |
| Reading distance*             | Up to 5 cm with a 125 kHz card<br>Up to 4 cm with a 13.56 MHz MIFARE® Plus/DESFire® EV1 card   |
| Communication interfaces      | Wiegand - Data/Clock (Wiegand - Ciphered function - SX1)<br>RS232 (RS232 Ciphered function - SX2)<br>RS485 (RS485 Ciphered function - SX3)   |
| Connections                   | 2 cable glands PE PAP-R0 M20, for blinded cable ext. 10-19mm<br>Internal block junction 10 x 2,5 mm <sup>2</sup>   |
| Light indicator               | Card configuration and external command (0V) in RX1/SX1<br>By card and software in RX2/SX2/RX3/SX3 - By software in WX2/WX3  |
| Power supply                  | Typical 100mA/12V  |
| Power requirement             | +7 VDC to +28 VDC  |
| Material                      | Aluminum alloy & stainless steel, epoxy grey RAL 9006  |
| Dimensions                    | 270 x 310 x 180 mm   |
| Weight                        | 13,5 kg  |
| Operating temperatures        | - 20°C to + 70°C - Inside / outside use  |
| Resistance                    | IP 66  |
| Mounting                      | Wall mount: 4 brackets included - Screw diameter 11mm  |
| Certification                 | ATEX (EN60079) & IECEx   |
| Marking                       | EC type examination certificate: BKI 08 ATEX 0048<br>Type approved: GUB<br>Ex II 2 GD (G: Gas / D: Dust)<br>Ex d IIC T5<br>Ex tD A21 T100°C IP66   |
| Part number                   | Secure read-only - TTL: ATX-RX1-E/BF5-xx/3<br>Secure read-only - TTL - Secure Plus: ATX-SX1-E/BF5-xx/3<br>Secure read-only - RS232: ATX-RX2-E/BF5-5AB/3<br>Secure read-only - RS232 - Secure Plus: ATX-SX2-E/BF5-5AB/3<br>Secure read-only - RS485: ATX-RX3-E/BF5-7AB/3<br>Secure read-only - RS485 - EasySecure interface: ATX-RX3-E/BF5-7AA/3<br>Secure read-only - RS485 - Secure Plus: ATX-SX3-E/BF5-7AB/3 |



\*Caution: information about the distance of communication: measured from the centre of the antenna, depending on the type of identifier, size of the identifier, operating environment of the reader, power supply voltage and reading functions (secure reading)



### SECARD programming kit

Creates configuration cards for high security readers and user cards.



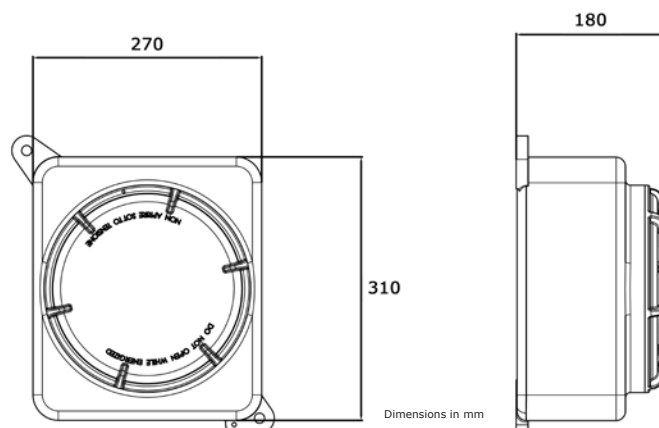
- Standard ISO cards
- MIFARE® Hybrid cards



Wristbands



Key Holders



Dimensions in mm

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