# ATS1181

## Secure Mifare DesFire EV1/EV2 card reader with PIN, output and RTE input in slim design

### Product Overview

The ATS MIFARE DESFire EV1/EV2 readers connect directly to the control panel or 4 door controller using the ATS databus. Communication to Advisor Advanced control panels is AES encrypted, providing data to be securely communicated from the card to the processing unit. The readers are configured locally through keypad and control panel menu or addressed through the ATS1482 addressing card when used for ATS Master. When the reader is used in Advisor Advanced the ATS1482 addressing card is mandatory for changing address. Select secure cards from the ATS145x secure card series.
The reader offers a Request To Exit input and one open collector output that can be used to control a door relay or door strike.
The ATS Mifare Desfire EV1 readers are designed to transfer card data is a secure and reliable way in various environments. The card data is by default secured by an Interlogix own security key, but can be changed easily in Advisor Advanced control panels to any custom required key.
The readers can optionally be set to read MIFARE CSN numbers instead in unsecure mode.

### Communication

The reader communicates over the Advisor databus to Advisor control panels and 4 door controllers. When connected to Advisor Advanced control panels the data between reader and control panel is AES encrypted, securing the data from the card or the PIN code until being processed.

### Design

The unique design of the housing guarantees that the reader can be used in the most demanding surroundings having IP67 and IK-09 ratings. Readers can be installed directly on to a metal surface without any insulation.




### Detaljer

- Secure ATS Mifare DESFire EV1/EV2 reader with PIN keypad
- Supports Secure Mifare (secure mode) or Mifare 4 or 7 byte CSN/UID (Unsecure mode)
- Use secure ATS145x series cards or customer cards
- Secure communication between reader and Advisor Advanced control panel
- Robust molded plastic housing in slim design
- Indoor or outdoor mounting
- ATS bus interface
- Request To Exit input
- Open Collector Output (door open)
- Supported as of Advisor Advanced MR4.2

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## Tekniska specifikationer

### System

| | |
|---|---|
| Reading distance | Secure: max 2 cm<br>Unsecure: max 5 cm |
| Max. reader distance to panel | 1500 m |
| CSN (Card Serial Number) | Yes |
| Custom data model | Yes |
| Supported card types | Mifare Classic 7 Byte UID, MIFARE® Classic UID, MIFARE® DESFire UID, MIFARE® DESFire® EV1, MIFARE® DESFire® EV2, MIFARE® DESFire® EV3 |
| Addressing type | Card Addressing |
| No. of LEDs | 3 |

### Technology

| | |
|---|---|
| Reader type | Smart Card |
| Reader operating-transmitting frequency | 13.56 MHz |
| Supported technology 13.56 MHz | MIFARE Classic (CSN), MIFARE DESFire (CSN), MIFARE DESFire EV1 (Aritech), MIFARE DESFire EV1 (CSN), MIFARE DESFire EV1 (custom data), MIFARE DESFire EV2 (Aritech), Mifare DESFire EV2 (CSN), Mifare DESFire EV2 (custom data), MIFARE DESFire EV3 (CSN), MIFARE DESFire EV3 (custom data) |
| Mifare type | ISO14443A |
| No. of Mifare bytes CSN | 4 Bytes (non-unique), 4 Bytes (S50), 7 Bytes (S50), 7 Bytes (S70) |

### Interface & connections

| | |
|---|---|
| Interface | ATS RS-485 |
| Connector type | Pigtail |
| Pigtail length | 2 m |

### Inputs/outputs

| | |
|---|---|
| Inputs | Request to exit |
| Outputs | 1 Open Collector (10 mA) |

### Tamper type

| | |
|---|---|
| Pry-off tamper | Yes |

### Operation

| | |
|---|---|
| PIN keypad | Yes |
| PIN length | Defined by control panel |

### Electrical

| | |
|---|---|
| Operating voltage | 10.8 to 30 VDC |
| Current consumption | 50 mA @ 13.8 Vdc normal<br>80 mA @ 13.8 Vdc max |

### Physical

| | |
|---|---|
| Physical dimensions | 140 x 44 x 20 mm |
| Net weight | 240 |
| Shipping weight | 275 |
| Colour | Black |
| Material | Plastic |
| Form factor | Slimline |
| Mounting Type | Surface mount |

### Environmental

| | |
|---|---|
| Operating temperature | -40 to +55°C |
| Storage temperature | -40 to +55°C |
| Environment | Indoor, Outdoor |
| IP rating | IP67<br>IK-09 |

### Regulatory

| | |
|---|---|
| Compliancy | CE |
| Certification | VdS |

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