

ATS1180/81

Secure Mifare DesFire EV1/EV2 card reader



OVERVIEW

The ATS MIFARE DESFire EV1/EV2 readers connect directly to the control panel or 4 door controller using the ATS databus.

Communication to the Axon panel is AES encrypted, providing a secure connection between you card technology and the controller. The readers are programmed through a keypad, or by using the ATS1482 address cards. Aritech provides a full range of secure credentials to suit any application.

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 readers are designed to transfer data in a secure and reliable way, suitable for any installation. The card data is secure by a proprietary Aritech security key by default, but can be changed to any required custom key.

The readers can optionally be set to read MIFARE CSN numbers instead in unsecure mode.

COMMUNICATION

The reader communicates over the Axon databus to control panels and 4 door controllers. When connected to Axon control panels, the data between reader and control panel is AES encrypted, securing the data from the card 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 rating. The reader can be installed directly on to a metal surface without any insulation.

FEATURES

- Secure ATS MIFARE DESFire EV1/EV2 reader
- 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 using AES-128 bit encryption between reader and Axon 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)

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SPECIFICATIONS

System		ATS1180	ATS1181
Reading distance		Secure: max. 2 cm; Unsecure: max. 5 cm	
Max. reader distance to panel		1500 m	
CSN (Card Serial Number)		Yes	
Custom data model		Yes	
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 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)	
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	No	Yes	
PIN length	-	Defined by control panel	
Electrical			
Operating voltage		10.8 to 30 VDC	
Current consumption		50 mA @13.8 VDC normal; 80 mA @13.8 VDC max.	
Physical			
Physical dimensions		140 x 44 x 20 mm	
Net weight		240 g	
Shipping weight		275 g	
Colour		Black	
Material		Plastic	
Form factor		Slimline	
Mounting type		Surface mount	
Environmental			
Operating temperature		-40 to +55°C	
Storage temperature		-40 to +55°C	
Relative humidity		<95% noncondensing	
Environment		Indoor, Outdoor	
IP rating		IP67; IK09	
Regulatory			
Compliance		CE, RCM	