ATS1180M

Secure MIFARE DESFire EV1/EV2/EV3 card reader with output and RTE input in slim design, prepared for Mobile solutions

Product overview

The ATS MIFARE DESFire EV1/EV2/EV3 readers connect directly to the control panel using the ATS databus. Communication to Axon and Advisor Advanced control panels is AES encrypted. In secure mode, card to reader data is also AES encrypted providing secure communication from the card to the processing unit. The readers are configured locally through keypad and control panel menu and the address is configures using the ATS1482 addressing card. Select secure cards from the ATS145x secure card series. The reader is also prepared to support future mobile credentials.
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 ATS118xM Mifare Desfire readers are designed to transfer card data in a secure and reliable way in various environments. The card data is by default secured by an Aritech own security key, but can be changed easily in Axon or 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 in a secure way over the ATS LAN databus to Axon or Advisor control panels using AES encryption, 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.
Mounting brackets and weather protection covers provide extend the available applications.



Détails

- Secure ATS MIFARE DESFire EV1/EV2/EV3 reader
- Prepared for Mobile Credentialing using Bluetooth
- 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 / Advisor Advanced / CDC4 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 MR4.9 and from Axon MR1.0
- NFC prepared for configuration purposes

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Spécifications techniques

Système

Distance de lecture	Secure: max. 2 cm Unsecure: max. 5 cm Bluetooth depending on mobile device and settings
Distance max. entre le lecteur et la centrale	1500 m
CSN (numéro de série carte)	Oui
Modèle de données personnalisé	Oui
Types de cartes pris en charge	MIFARE® Classic UID, MIFARE® DESFire UID, MIFARE® DESFire® EV1, MIFARE® DESFire® EV2, MIFARE® DESFire® EV3
Type d'adressage	Card Addressing
Nbre de LED	3

Technologie

Type de lecteur	Smart Card
Fréquence de transmission du fonctionnement du lecteur	13.56 MHz
Technologie supportée 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)
Type Mifare	ISO14443A
Nbre d'octets Mifare CSN	4 Bytes (non-unique), 4 Byte (S50), 7 Bytes (S50), 7 Byte (S70)

Interface et connexions

Interface	ATS RS-485
Type de connecteur	Queue cochon
Longueur de la queue de cochon	2 m

Entrées / sorties

Entrées	Request to exit
Sorties	1 Open Collector (10 mA)

Type d'autoprotection

Levier d'arrêt inviolable	Oui

Opération

Autonome	Non
Code PIN clavier	Non

Électrique

Tension de fonctionnement	10.8 to 30 VDC
Consommation de courant	55 mA @13.8 VDC normal 85 mA @13.8 VDC max.

Caractéristiques physiques

Dimensions physiques	140 x 44 x 20 mm
Poids net	240 g
Poids à l'expédition	275 g
Couleur	Noir
Matériel	Plastique
Types de format	Slimline
Type de montage	Montage en surface

Environnement

Température de fonctionnement	-40 to +55°C
Température de stockage	-40 to +55°C
Humidité relative	<95%, noncondensing
Environnement	Intérieur, Extérieur
Indice de protection	IP67 IK09

Régulateur

Conformité	CE

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