

## ID MAX.50.10-xE

**HF Stand alone Terminal for identification of Mifare transponders**

- Offline management of more than 5.000 access permissions (Stand-alone operation)
- Optional Power over Ethernet (PoE) or external power supply
- AES-encrypted Ethernet data transfer
- Multi-tag card reader (ISO 14443-A/B and ISO 15693)
- Identification via serial number or freely configurable data area
- Real time clock & time zones
- Configurable event memory



## PART OF

**myAXXESS****MAKE ACCESS CONTROL EASY**

Access control systems on buildings and parking areas should be as uncomplicated as possible. myAXXESS is the secure, powerful and economic solution for small and medium-sized projects. Both in a stand-alone systems and integrated into existing access solutions. As a RFID specialist, FEIG ELECTRONIC offers systems from a single source, consisting of:

- RFID hardware for short-range solutions (HF)
- RFID hardware for long-range solutions (UHF)
- Software myAXXESS Manager for administration of access authorizations
- Transponders for granting authorizations (HF chipcards and UHF wind shield transponders)

ID MAX50.10 combines the functions of a card reader, a door control and access control in one compact device. The dimensions correspond to those of a conventional RFID card reader. So it allows cost-effective solutions for personnel and vehicle access control as well as an easy integration into IP-based network infrastructures with CAT-5 cables due to its fast Ethernet interface (10BASE-T / 100BASE-TX). The AES-encrypted data ensures a high system security and protects the access control infrastructure effectively against attacks by intercepting or tampering.

With ID MAX50.10 more than 5.000 access permissions can be managed and approx. 2.000 access control events can be stored. Each user can be assigned to additional temporal restrictions. Holidays and vacation days can be included, easily. Using the software myAXXESS Manager, user data and authorizations can be easily administrated and transferred to ID MAX50.10 by using a temporary connection. After this synchronization, the reader can run offline as a stand-alone device. Optionally, events can be immediately reported to a host system via notification in the operation mode "Access Mode". The event memory can be adapted to different data protection laws, but it can be also completely disabled.

Power is supplied via Power over Ethernet (PoE) according to IEEE802.3af or via an external DC power supply.

ID MAX50.10-xE supports passive transponder according to ISO / IEC 14443 type A and type B, ISO / IEC 15693 and communicates with NFC devices (ISO / IEC 18092). As an identifier, ID MAX50.10-xE can examine either the serial number (UID / CSN) or user-selectable memory areas of the transponder.

Because of the open software architecture and compatibility with other RFID readers from FEIG ELECTRONIC, the device can be easily incorporated into various applications. That for, software development kits (SDK) for current operating systems and programming environments are available.

Typical applications for the ID MAX50.10-xE are in industrial and commercial installations. Each unit can be a part of a complex access control system with widely distributed access points. Furthermore it can also be used for single doors in small and medium-sized installations.

ID MAX50.10 is available in two versions:

#### 1. ID MAX50.10-RE

This version has an internal relay and is suitable for the control of doors with medium security requirements.

#### 2. ID MAX50.10-E

In this version the external I/O Extension Board **ID CPR.I/O-A** with 2 digital inputs and one relay can be connected. The external relay ensures maximum security, as it can be placed inside the area to be secured.

#### Delivery

- ID MAX50.10-E resp. ID MAX50.10-RE
- Wall-mounted housing for surface mounting
- Mounting instruction

#### Accessories

ID CPR.I/O-A: I/O Extension Board with one relay and two digital inputs (only for ID MAX50.10-E)



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## HF Card reader for access control applications

RFID card reader with integrated access controller for offline management of more than 5.000 access permissions.

Product details		ID MAX50.10-xE	
<b>Mechanical Data</b>		<b>Features</b>	
Housing	Corpus: Plastic ASA Front panel: acrylic glass	Supported transponders	ISO 14443-A / -B ISO 15693 NFC
Dimensions		LEDs	3x (blue, green and red) with configurable function
Card reader	84 mm x 84 mm x 22 mm	Buzzer	integrated
Wall-mounted housing	78 mm x 78 mm x 18 mm	Real time clock	24 h power reserve; Accuracy: $\pm 2$ s/day
Weight	approx. 150 g	Reading/writing distance	typical 3 upto 10 cm*
Protection class	IP 54	<b>Environmental conditions</b>	
Color	Corpus: white Front panel: black	Temperature range	
<b>Electrical Data</b>		- Operation	-20° C up to 55° C
Supply voltage	PoE, IEEE802.3af; alternative: external power supply 24 V up to 48 V DC $\pm 10\%$	- Storage	-40° C upto 85° C
Current consumption	max. 2,6 W	Relative air humidity	95% (non condensing)
Operating frequency	13.56 MHz	<b>Standard conformity</b>	
RF transmitting power	250 mW $\pm 2$ dB	Radio license	
Antenna	integrated, approx. 70 mm x 70mm	- Europe	EN 300 330
<b>Inputs / Outputs</b>		- USA	FCC 47 CFR Part 15
- ID MAX50.10-RE	1x Relay (open contact) contact rating: 24 V AC/DC 1.5 A	- Canada	IC RSS-GEN, RSS-210, RSS-212
- ID MAX50.10-E (incl. I/O Extension board ID CPR.I/O-A)	1x Relay (change-over contact) contact rating: 24 V AC/DC 1.5 A 2x digital inputs	EMC	EN 300 489
Interface	Ethernet 10BASE-T/ 100BASE-TX, Automatic MDI/MDI-X Crossover correction, TCP/IP protocol, IPv4	Safety	
Cable specification	max. 100 m CAT-5 cable	- Low voltage	EN 60950
Memory	FRAM for user data, 10 <sup>14</sup> write cycles, EEPROM for configuration data, 1 million write cycles	- Human Exposure	EN 50364
		Others	RoHS, WEEE

\* Reading distances depend on the used transponders; here made statements relate on an inlet size of 76 x 45 mm

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