TMC2250 MIFARE® Cardreader

Applications

- Access control
- · Time recording
- Time and attendance
- Door management
- Parking systems
- Elevator control

Functions

- Contactless reading method (MIFARE[®])
- Reading distance: up to 80 mm
- reading distance: from 7 to 10 cm
- connection of 8 cardreaders to the access controller XMP-K24^{plus} or XMP-K32
- firmware update from Host-PC
- adjustable address via dip switch
- sabotage tamper
- optionally with PIN-CODE keyboard (XMP-TMC2260)
- easy mounting by Phoenix connectors
- signalling: 3 x LED`s, 1 x buzzer
- impact proofed housing (ABS)

Technical data

Housing: ABS

Color: Similar RAL9006/9007 silver

Dimensions

50 x 136 x 25 mm

(HxLxW):

Protection: IP 54

Power supply: 12-24 V (AC / DC)

Current app.120mA at 12V DC

consumption:

Environmental -20°C to +70°C (operation and

conditons: storage)

Interface: RS 485 (2 wire)

Processor: M16C

16 Bit; 16 MHz; CMOS-Design

Memory: RAM 20kB

Flash-Memory 256kB

Accessories: Individual painting,

High protection (IP65)

Important customer information!

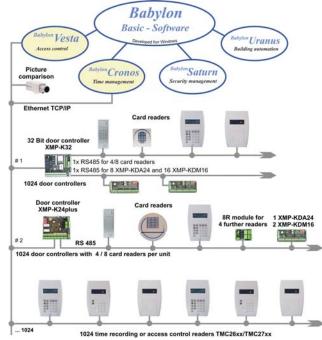
Defective circuit boards must be disposed in competent manner. Old batteries and accumulators are hazardous waste. The package can be used again or can be disposed. The green filling material can be disposed as bio waste.





XMP-TMC2250

XMP-TMC2260



Scheme for the connection possibilities of cardreaders to BABYLON/NT

Legend

XMP-K24^{plus}: Intelligent door control unit with RS485 and 10Mbit LAN interface. Up to 8 access control terminals are connectable. The **XMP-K24**^{plus} is equipped with 8 digital outputs and 16 digital inputs.

XMP-K32: Intelligent door control unit with RS485and 10/100Mbit LAN interface. It is equipped with a 266MHz processor (embedded Linux operating system). 100.000 access profiles, 500.000 badges (extendable on 2.000.000), 500.000 bookings.

Order number: XMP-TMC2250 XMP-TMC2260 with PIN code keys

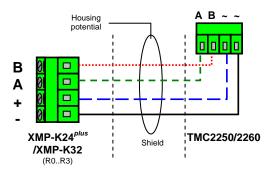


Backside of the cardreader

Terminal assignment for the XMP-TMC2250/2260

TMC2250 TMC2260 (J1)	XMP-K24/K32 (R1R4)	Description
~	+ or -	Power supply
~	+ or -	Power supply
В	В	RS485 Reader Interface
Α	А	RS485 Reader Interface

Connection sheme for electrical wiring of XMP-TMC2230/2240 cardreaders and access controllers XMP-K24^{plus} or XMP-K32



Hints on wiring:

The card reader can be powered from access controllers internal power supply (12 VDC or 24VDC). The RS485 communication interface can be wired via bus or star structure.

Card reader distances and cable types:

Distance Type of cable Up to 200 m 2x2x0.8 (shielded)

Meaning of the micro switches SW1

Switch	Meaning
1-3	For binary setting of the reader addresses 07 (e.g. only switch 1 = ON → reader address 1, or only switch 3 = ON → reader address 4, or 1, 2 and 3 = ON → reader address 7
4	Default OFF
5	Baudrate setting to K24/K32 OFF: 9600
6	ON = UCI-Protokoll
7	Reserve
8	ON = Bootloader activated



Hints to the reading methods

The TMC2250/2260 reads the **serial number or sector-block-information** from MIFARE® cards. In case of reading the serial number a maximum 14 digit decimal card number (UID) will be transmitted. The sector block information will be transmitted as 16 bytes (ASCII format) or in 32 digits representing the corresponding half-bytes of a 16 byte block.

Hints for reading distance

In dependence on the environment conditions and types of data carrier the reading distance is maximum 80 mm. Metal parts within the distance of 120 mm to the reader can reduce the reading distance.

Recommended badge types: ISO standard

Meaning of the LEDs

yellow: operation state red: not authorized green: authorized

Backside D4: communication TXD Backside D5: communication RXD

Reader protocol

UCI - Omron 5 Bit (like magnetic stripe)
(Hint: XMP-K24^{plus} – firmware release 3.8 or higher needed)

SecuCrypt® - Blowfish encryption

(Hint: only for XMP-K32/K32lite)

Dimension (mm)

