

## Technical data sheet XMP-TMC2330/2340 HITAG® Card reader

### Access reader HITAG®

#### Performance:

- Contact less card reader for access control
- Reads serial number from MIRO®/ HITAG-1®/ HITAG-2®
- Reading distance: 20 to 60mm
- Connection possibility of up to 8 readers at the door control unit XMP-K32 respectively K32SX or 2 readers at the door control unit XMP-K12 over UCI- or SecuCrypt® protocol
- Encrypted communication via Blowfish or AES256 bit
- Possibility of firmware updating over Secucrypt® protocol
- Adjustable address via dip switch
- Tamper contact
- Optionally with Sensor PIN-CODE keyboard (XMP-TMC2340)
- Signaling elements: 3x LED, 1x buzzer
- impact proofed housing (ABS)
- Standard housing for mounting in standard outlet sockets
- Possibility of surface mounting by using finery frames (Accessory: XMP-TMC-850)
- Potted electronic

#### Technical Data:

<b>Case:</b>	ABS material (impact-proofed housing)
<b>Colour:</b>	Silver RAL9006/9007
<b>Dimensions (LxWxH):</b>	90 x 90 x 21mm
<b>Protection type:</b>	IP 54
<b>Supply voltage:</b>	10-24 V (AC / DC)
<b>Current consumption:</b>	Approx. 110 mA / 12V DC Approx 55 mA / 24V DC
<b>Environmental conditions:</b>	From -20°C to +75°C operation and storage
<b>Interfaces:</b>	RS 485 (2 wire) 9600 – 19200 Baud
<b>Processor:</b>	M16C 16 Bit; 16 MHz; CMOS-Design
<b>Program memory:</b>	RAM 20kB Flash-Memory 256kB

#### 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.

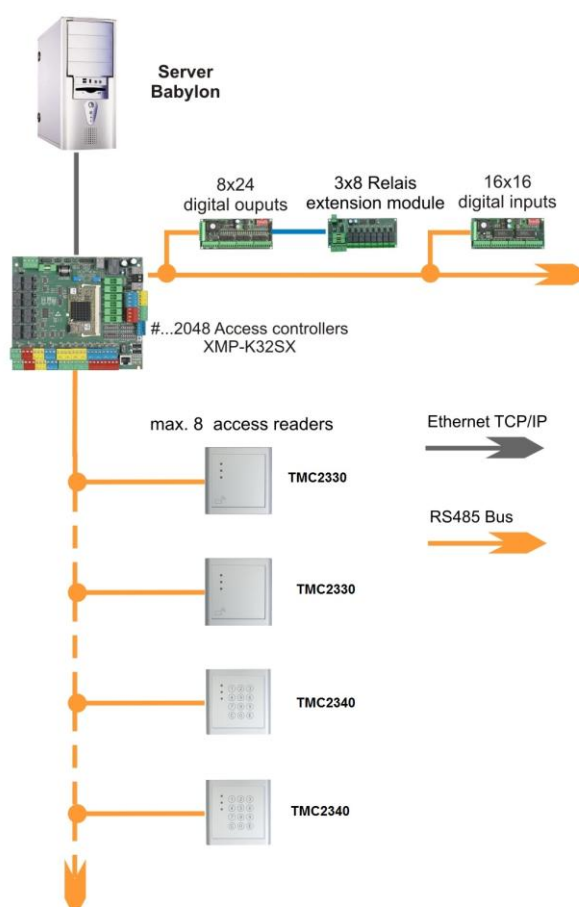


XMP-TMC2330



XMP-TMC2340

### System Architecture



#### Legend:

**XMP-K32:** Intelligent door control unit with RS485- and 10/100Mbit LAN interface. It is equipped with a Linux operating system.

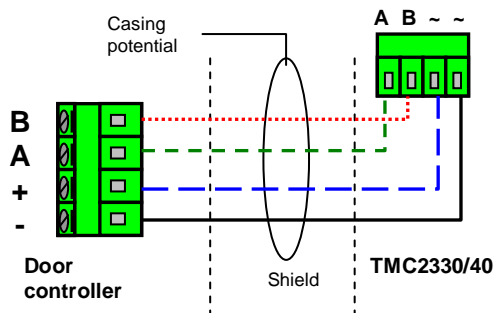
**500.000** badges, **100.000** access profiles, (extendable on demand), **500.000** bookings.

#### Order number:

**XMP-TMC2330**

**XMP-TMC2340 with PIN-Code**

## Scheme of connecting from the reader to the door controller:



TMC2330 TMC2340	XMP-K32 (R1..R4)	Description
~	+ / -	Power supply
~	+ / -	Power supply
B	B	Reader interface RS485
A	A	Reader interface RS485

## Hints for wiring:

The power supply can be provided central by the **XMP-K12/ XMP-K32** (recommendation). The connection can be realized star- or bus-like. Note the following distances:

**Distance** Up to 200 m  
**cable type** 2x2x0,8 (shielded)

## Meaning of the micro switches SW1:

Switch	Meaning
1-3	For binary setting of the reader addresses 0..7 (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	Baud rate setting to K24/K32 OFF: 9600 (suggested); ON = 19200
6	ON = UCI-Protocol
7	Reserved
8	ON = Boot loader activated

## Meaning of the LEDs:

yellow: operation state  
yellow blinking: no communication  
red: not authorized  
green: authorized  
Reverse side D4: communication TXD  
Reverse side D5: communication RXD

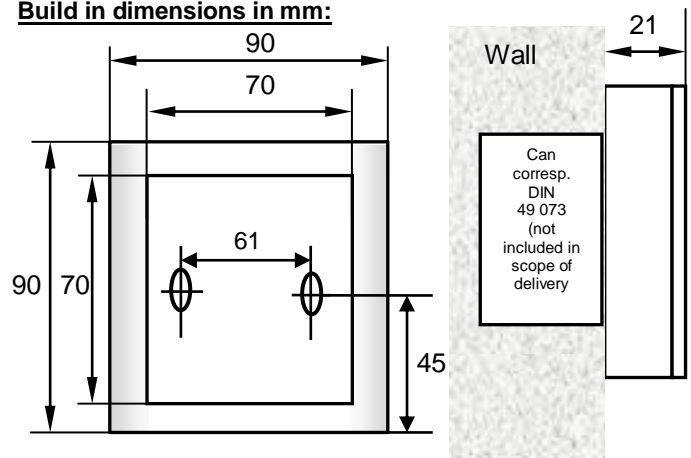
## Details for reading methods:

The TCM2330/2340 reads the **serial number** of Miro-, Hitag-1 and Hitag-2 badges. The reader transmits a 14 digit badge information. Digit 14 of the read badge type represents: 0 = Miro, 1 = Hitag-1, 2 = Hitag-2.  
In case of evaluating a 14 digit badge information it can be necessary to replace digit 14 by a blank in the access controller parameters, e.g., if different reader types are in use.

## Remarks to reading distance:

In dependence on the environment conditions and types of data carriers the reading distance can be up to 60 mm. Metal particles within the distance of 120 mm to the reader can reduce the reading distance.  
Recommended card types: ISO standard

## Build in dimensions in mm:



Card reader with stable finery frame **XMP-TMC-850**  
Frame dimensions: 91.0 x 91.0 x 21.0mm

Issued by  
Autec Gesellschaft für Automationstechnik mbH  
Bahnhofstrasse 57-61b  
D-55234 Framersheim  
Email: [yk@autec-gmbh.de](mailto:yk@autec-gmbh.de)  
Tel.: +49 (0) 6733 92 01-0  
Fax: +49 (0) 6733 92 01-91  
[www.autec-gmbh.de](http://www.autec-gmbh.de)  
[www.autec-security.com](http://www.autec-security.com)

© 2013 Copyright by AUTEC für Automationstechnik mbH



Changes and errors excepted