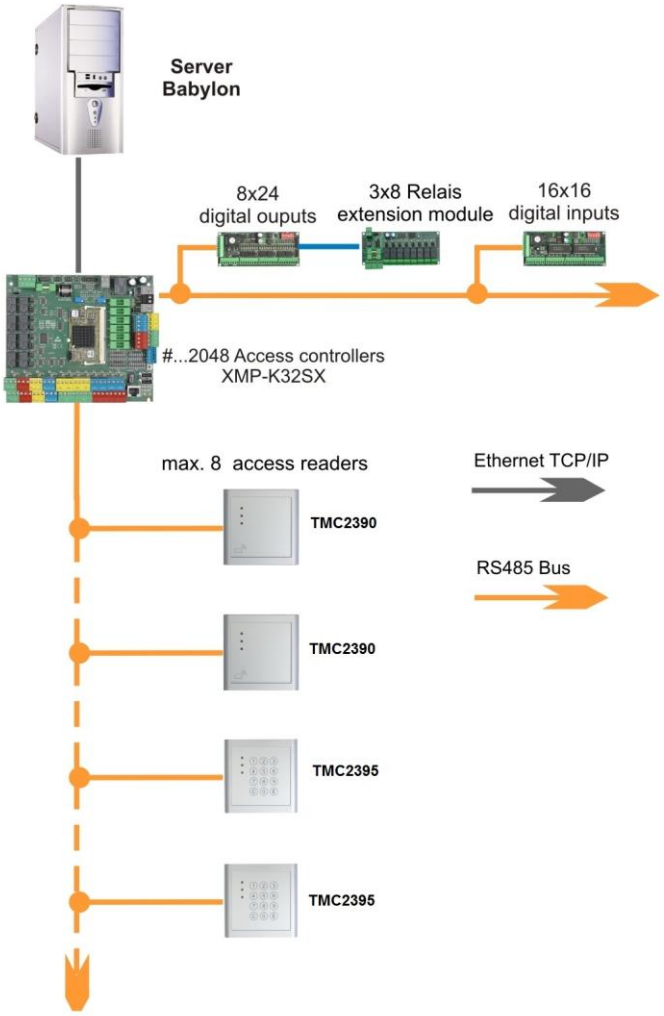
Technical data sheet XMP-TMC23xx HID® iClass Card reader

Access reader HID® iClass

XMP-TMC2390

XMP-TMC2395

System Architecture



Performance:

- Contact less card reader for access control
- Reads HID iclass cards
- Reading distance: up to 60 mm
- 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-TMC2395)
- 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:

Case:	ABS material (impact-proofed housing)
Colour:	Silver RAL9006/9007
Dimensions (LxWxH):	90 x 90 x 21mm
Protection type:	IP 54
Supply voltage:	12-24 V (AC / DC)
Power consumption	approx. 1,4 W
Current consumption:	approx.110 mA / 12V DC approx.55 mA/ 24V DC
Environmental conditions:	From -20°C to +75°C operation and storage
Interfaces:	RS 485 (2 wire) 9600-19200 Baud
Processor:	M16C16 Bit; 16 MHz; CMOS-Design
Program memory:	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.

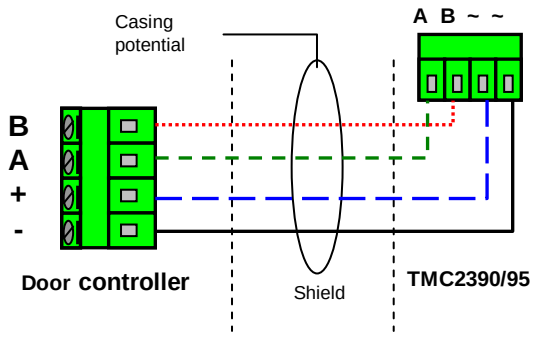
Legend:

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-TMC2390
XMP-TMC2395 with PIN-Code

Scheme of connecting from the reader to the door controllers XMP-K12 or XMP-K32:



TMC2390-HID TMC2395-HID	XMP-K32 (R1..R4)	Description
~	+ / -	Power supply
~	+ / -	Power supply
A	A	Reader interface RS 485
B	B	Reader interface RS 485

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	**cable type**
Up to 200 m	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

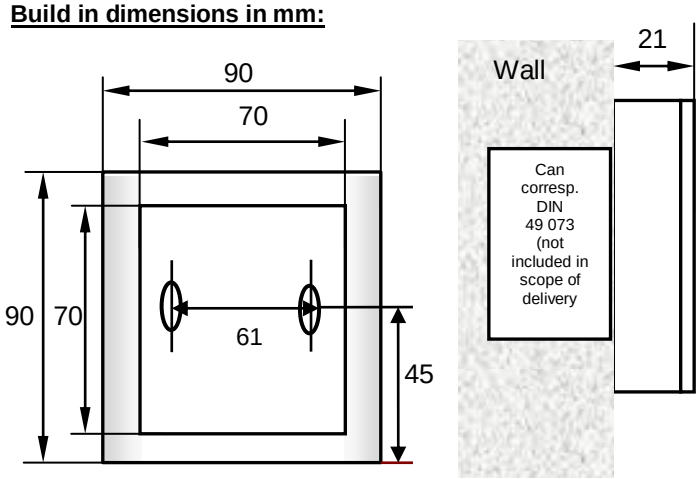
Details for reading methods:

The TMC2390 reads HID iclass cards in the formats H10301 (26 bits) and Corporate 1000 (35 bits) as 14-figure identity card number

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

Build in dimensions in mm:



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

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