Access reader LEGIC

protecting, managing, booking

Fields of application
- Access control
- Time recording
- Time management
- Door management
- Parking systems
- Elevator control

XMP-TMC2470

XMP-TMC2480

Functions

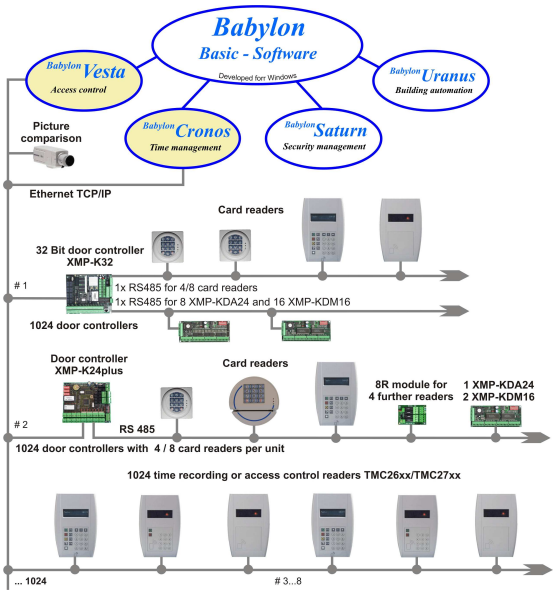
- Contact less reading method
- Reading distance: up to 8 cm (super tag technology)
- Reading serial number and sector-block information of segmented and not segmented badges
- Connection of 8 card readers to the access controller **XMP-K24*plus*** (UCI Protocol) or **XMP-K32** (UCI/SecuCrypt Protocol)
- Firmware update from Host-PC via XMP-K32/K32L possible
- Power supply 12-24 VDC from access-controller
- Adjustable address via dip switch
- Sabotage tamper
- Signaling: 3x LED, 1x buzzer
- installation into standard recess boxes DIN 49073
- Surface mounting by using spacer-frame (XMP-TMC-860)
- Easy mounting by Phoenix connectors

Specifications

XMP-TMC2470P-SIE: The ***SM05-P*** Legic assembly allows the reading of serial number from Legic-PRIME badges – independent on specific card configurations.
XMP-TMC2470P-232-SIE: For this special variant of TMC2470 (e.g. for automatically registration of Legic card serial number into the personal database with program SIPORT NT VAS SR3) the card reader hardware is specified will be delivered together with a **TTL-RS232 adapter**. Thus, the card reader can be connected directly to a **COM port** of a corresponding operator station.

Technical Data

Case:	Material ABS (impact proofed housing)
Color:	Silver (similar RAL9006/9007)
Dimensions (LxWxH):	80 x 80 x 25 mm
Protection type:	IP 54
Supply voltage:	12-24 V (AC / DC)
Current consumption:	Approx.120 mA / 12 VDC
Environmental conditions:	From -20℃ to +70℃ (operation and storage)
Interfaces:	RS 485 (2 wire)
Processor:	M16C 16 Bit; 16 MHz; CMOS-Design
Program memory:	RAM 20kB Flash-Memory 256kB



TMC2470 / TMC2480
(Up to 8 readers connectable at the door control unit **XMP-K32Lite /XMP-K32**)

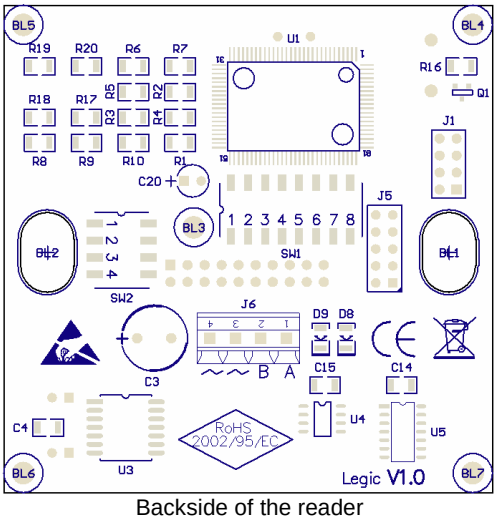
Legend

XMP-K24*plus*: intelligent door control unit with RS485 interface. Up to 8 access control terminals connectable. The **XMP-K24*plus*** is equipped with 8 digital outputs and 16 digital inputs.

XMP-K32: intelligent door control unit with RS485 and 10/100Mbit LAN interface.
266MHz processor with Linux embedded operating system.
100.000 access levels, **500.000** master data (extendable on **2.000.000**). Up to **500.000** bookings can be stored. Up to 8 access terminals are connectable.

Order numbers:

XMP-TMC2470
XMP-TMC2480 with PIN code keypad
XMP-TMC2470P with SM05-P chip
XMP-TMC2470P-232 with SM05-P chip and TTL-RS232 adapter

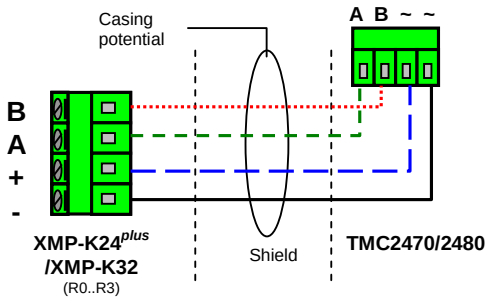


Backside of the reader

Terminal assignment for the XMP-TMC2470/2480

TMC2470 TMC2480	XMP-K24/K32 (R1..R4)	Description
~	+ or -	Power supply
~	+ or -	Power supply
A	A	Reader interface
B	B	Reader interface

Scheme for the connection of the reader to the XMP-K24*plus* /XMP-K32



Hints for wiring:

The power supply can be provided central by the **XMP-K24*plus*/ 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

Hints to the reading procedures

The TMC2470/2480 can read the serial badge number or memory information from LEGIC PRIME cards. The functionality can be programmed into the reader by Babylon software "W3TM24P" program.
Specific settings like CRC, memory segment and search string can be defined by installer.
It is also possible to define the following standard settings:

1. Reading of 6 digit badge number (TMC470 compatible)
2. Reading of 14 digit badge number (TMC471 compatible)
3. Reading of serial badge number (TMC472 compatible)

Hints to the reading distance

In dependence on the environment conditions and types of data carrier the reading distance is between 30 and 80 mm.
Metal particles within the distance of 120 mm to the reader can reduce the reading distance.
Recommended badge type: LEGIC super tag

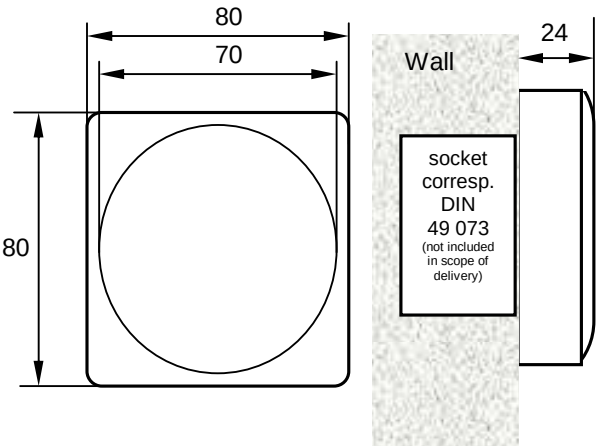
Meaning of the LEDs

Yellow:	operation state
Red:	not authorized
Green:	authorized
Backside D8:	communication TXD
Backside D9:	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)

Dimensions (mm)



Important customer info!
Defective boards must be disposed correct.
Batteries and accumulators are hazardous waste.
The packing can be used again or must be disposed. The green filling material can be disposed as Bio waste.

AUTEC
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