

Terminal XMP-TMC2803

access control, security,
time recording

The terminals of the series TMC2800 convince because it is user friendly and the service is very easy. The beautiful, small and ergonomic designed casing fits excellent in every kind of building architecture. The terminals can be integrated into already existing Ethernet network with a internal interface.

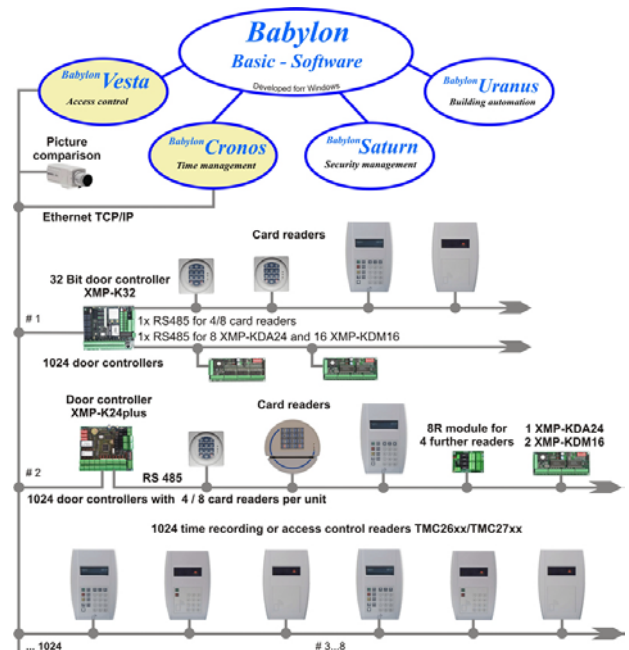
Functions

- Fluorescence display 2x20 digits
- 5 standard function keys
- 4 special functional keys (each 8 levels)
- PIN-Code keyboard
- Contact less reading method
- Connection possibility of up to 8 readers at the door control unit **XMP-K32Lite** or **K32Lite** over BPA/9 Plus or SecuCrypt-Protocol
- Reader parameters download from Host-PC over K32L/K32 possible
- Power supply 12-24 V DC over door controller
- Adjustable reader protocol and address via dip switch



Technical data

Case:	Material ABS (impact proofed housing)
Color :	Silver
Dimensions (LxWxH):	195 x 130 x 70 mm
Weight:	Approx. 0,6 kg
Protection type:	IP 54
Supply voltage:	12-24 V (AC / DC)
Current consumption:	app.120 mA at 12V DC
Environmental conditions:	From -20°C to +70°C (operation and storage) int. heating possible
Interfaces:	RS 485 (2 wire) 2400-19200 Baud asynchronous
Processor:	M16C 16 Bit; 16 MHz; CMOS-Design
Memory:	32kB Flash Memory



Scheme for the connection possibilities of card readers to BABYLON

Legend

Access controller K24Plus, K32Lite, K32:
Door controller unit with RS485 interface. Each XMP-K32-000 and XMP-K32-050 it is possible to connect 8 access and time recording terminals.

Order No.:

XMP-TMC2803

Time and attendance terminal with keyboard and VFD-Display

XMP-TMC2803-MIF

with MIFARE reader head

Highlights:

- **Fluorescent Display** 2 x 20 digits
- **End resistance** for low interrupted data transmission, integrated in the reader and individual configuration possible.
- **Reader addresses** adjustable by dip-switch. All switches can be changed while reader is running.
- **Firmware download** from Host when using Secucrypt protocol.
- **Sabotage contact** integrated into the reader, because of that there is no additional door control input necessary.
- **Protocol** over micro switch
- **Correction button** also supported during the PIN code input.
- **ASCII numbers** from different places on every badges supported.
- **Encrypted communication** between the card reader and door controller programmable.
- **Biometric systems** supported
- **UL294** conform

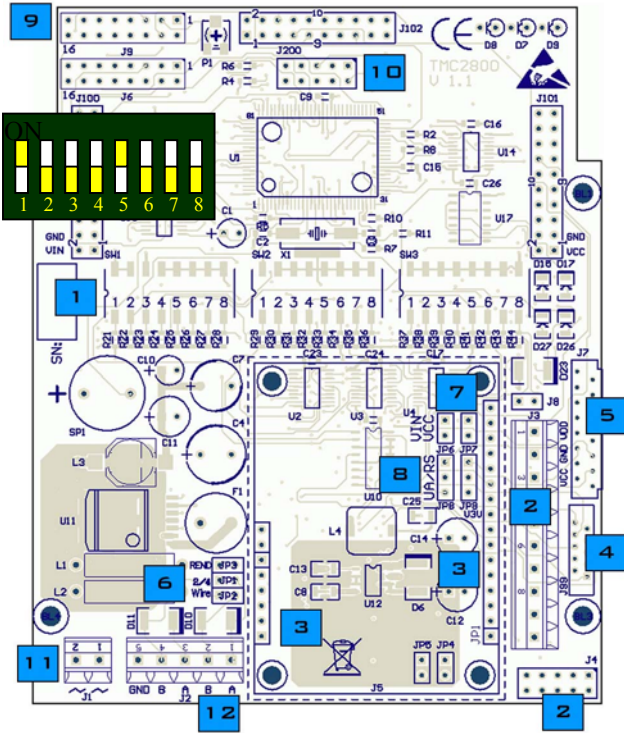
Variants

The reader is available with the following reader heads.

- Mifare

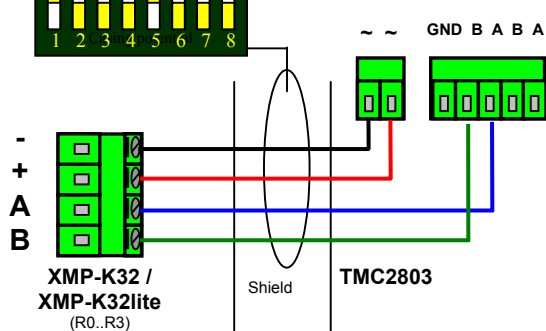
Fields of application

- Access control
- Time recording
- Time and attendance
- Door management
- Parking Systems
- Elevator control



1. Dipswitch block SW1 to SW3
2. Interface reader head
3. Interface for fingerprint sensor
4. Connection to standard keyboard
5. Connection to sensor keyboard / reader head
6. J1 to JP3
7. Power supply 12-24V DC for reader head
8. Interface for reader head (2) UART / RS485
9. Connection to Fluorescent Display
10. Interface for flashing firmware
11. Power supply 12-24V AC/DC
12. RS485 interface

Schematic for the connection of the reader to the XMP-TMC2803 module



Dipswitch blocks SW1 to SW3

1. Adjusting the reader address

SW1

SW1 : switch 1 to 3

Switcher	1	2	3
Address 0	off	off	off
Address 1	on	off	off
Address 7	on	on	on

Addresses adjustable from 0 up to 7

SW1 : switch 5
protocol type:
ON = SecuCrypt, OFF = BPA9 plus

SW1 : switch 6
ON = Sensor keypad

SW1 : switch 7
OFF = Deister readerhead
ON = Barcode reader

SW1 : switch 8
ON = Boot loader activated

2. Special functions switch block SW 2

SW 2

SW2 : switch 1
Fingerprint On Card activated

SW2 : switch 6
Adjusting the Baud rate between door controller and reader using the RS485 Bus (9600 = off and 19200 = on).

3. Switch block SW 3

SW 3

SW3 : switch 3 and 4
ON = Identification only by fingerprint sensor.
OFF = Verification (fingerprint and badge/Pin)

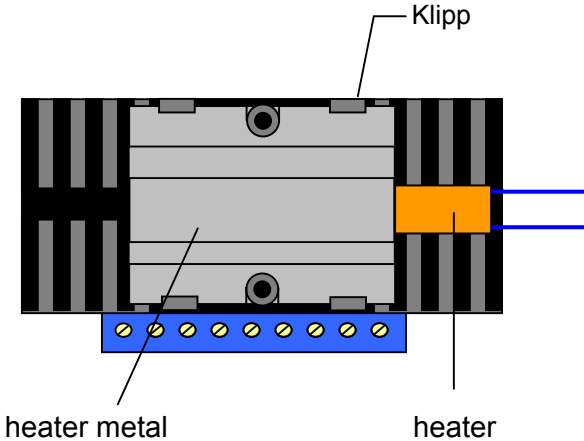
SW3 : switch 6
ON = 8 Bit protocol, when using BPA9 plus.
OFF = 7 Bit protocol, when using BPA9 plus.

Add on instruction for the TMC2800 heater

For additional heating the following parts are needed:

- XMP-TMC2500-NT-12V-BG (Order - NR.)
- XMP-TMC2500-HZ (Order - NR.)

The heater metal can be put on the power pack housing (see picture).

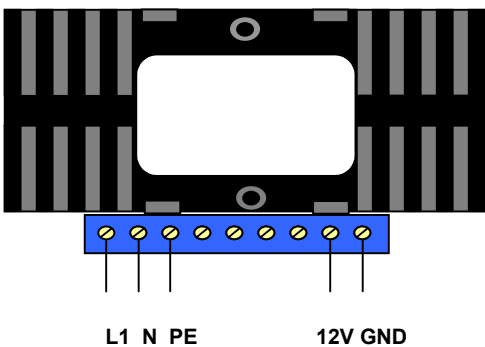


1. Input:

AC = 85 Volt – 264 Volt (50Hz)
 DC = 110 Volt – 370 Volt (Polarity any way)

At the connections plus and minus an output voltage is spent by 12V/0,9A (peak 1,08A, ca. 12 Watt).

The power input is depending upon outside temperature between 300 mA (3.6 Watts) and 500 mA (6 Watt).



At the ports L, N and PE the mains voltage is attached. Please only of an authorized specialist to accomplish leave.

2. Technical data

TMC2500-NT-12V-BG

- 10.8 Watts
- 12 V
- 0.9 ampere
- VDE - Permissions: UL1950, C-UL, EN60950, VDE0160 according to DEN-AN and IEC60950

3. Effective range of contact less read heads

The reader head is placed with in the characterized position under the TMC2800 - reader front. Within position badges have maximum read distance.



This symbol marks proximity reader head.

Important customer information!

Defective circuit boards must be disposed professionally. Batteries and accumulators must be disposed as hazardous waste. The package can be used again or must be disposed. The green filling material can be disposed as bio waste.

