

TECHNICAL DATA SHEET XMP-TMC2801-PV

**PalmVein-Terminal
for Access Control Systems**

The PalmVein pattern recognition method is a new biometric technology in the field access control. The position of the veins in the hand is different for each person. For this reason, the PalmVein technology is ideally suited for use in high security areas. The biometric information, located within the hand, offers a well protection against misuse or manipulation. The scanning of the palm vein pattern is performed without physical contact to the sensor. Skin color, skin impurities, superficial skin lesions have no influence on the detection of the vein pattern.

The PalmVein sensor has to be used in combination with a reader supporting the following technologies:

- MIFARE Classic®
- MIFARE DESFire® EV1
- LEGIC® prime or LEGIC® advant
- MIRO/HITAG®

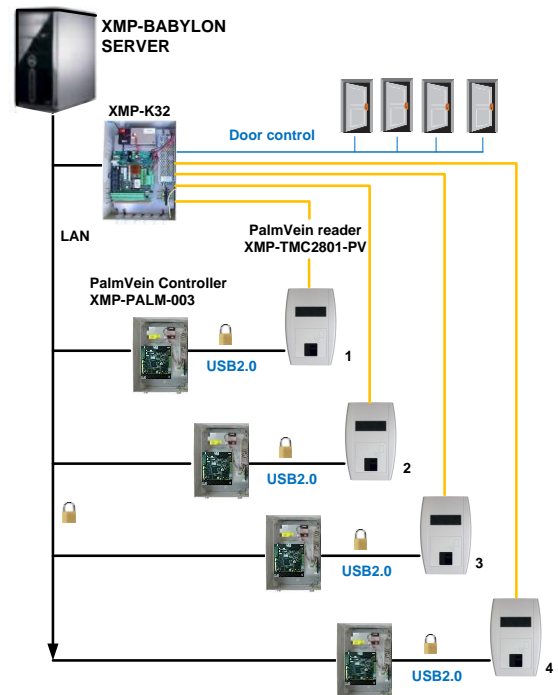


XMP-TMC2801-PV

TECHNICAL DATA

PalmVein sensor:	FAR: False Acceptance Rate: 0.00008 % FRR: False Rejection Rate: 0,01 %
Template size:	~ 2 KB
Verification time:	~ 1 to 2 sec
Reading head: (optionally)	-MIFARE®, MIFARE DESFire® -HITAG®1, HITAG®2 , MIRO -LEGIC®
Signaling:	Operation: Yellow LED Access granted: Green LED Access denied: Red LED
Interfaces:	1x RS485 2 wires (256bit AES or Blowfish encryption) 1x USB 2.0 (encryption)
Power supply:	11-24 V (AC / DC) 5,5-8 VA
Tamper contact:	Yes
Address:	Setting via micro-switch
Processor:	M16C 16 Bit; 16 MHz;
Memory:	32kB Flash Memory
Housing:	Material ABS (impact resistant), IP 54
Color:	Silver
Dimensions:	(WxHxD): 195 x 130 x 80 mm
Weight:	0,54 kg
Environmental conditions:	0°C to 60°C for operation -20°C to 70°C for storage

System architecture



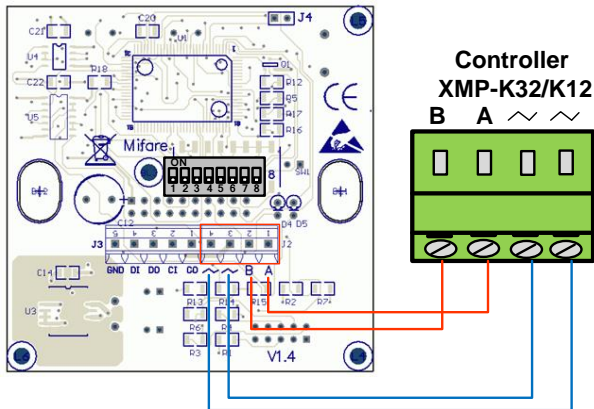
PalmVein-Reader XMP-TMC2801-PV:

Up to 4 PalmVein-readers can be connected to one XMP-K32/XMP-K32sx-controller or 2 readers to an XMP-K12.

Order numbers:

- XMP-TMC2801-PV-HIT (PalmVein , HITAG®)
- XMP-TMC2801-PV-MIF (PalmVein , MIFARE®)
- XMP-TMC2801-PV-LEG (PalmVein , LEGIC®)

XMP-TMC2801-PV Board



Electrical terminal assignment for XMP-TMC2801-PV

XMP-TMC2801-PV	XMP-K32/XMP-K12	Description
~	+ or -	Power supply
~	+ or -	Power supply
B	B	Reader interface
A	A	Reader interface

Hints for wiring:

The power supply should be provided from the XMP-K32/XMP-K32SX/XMP-K12 (recommendation).

The connection of the reader can be star-or bus-shaped (Note fuse rating). Following distances must be observed:

- Distance: Up to 200 m
- Cable type: 2 x 2 x 0,8 (shielded)

Wiring and power supply for door openers should not cross or bypass reader signal wiring.

Protocols

SecuCrypt® -AES – Blowfish encryption

(Hint: available only for XMP-K32/XMP-K32SX/XMP-K12)

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.

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Mounting instructions

The XMP-TMC2801-PV reader is designed to be wall mounted. The wall must have sufficient load-bearing capacity.

Suitable wall structures are as follows:

- Concrete walls
- Plastered brick walls

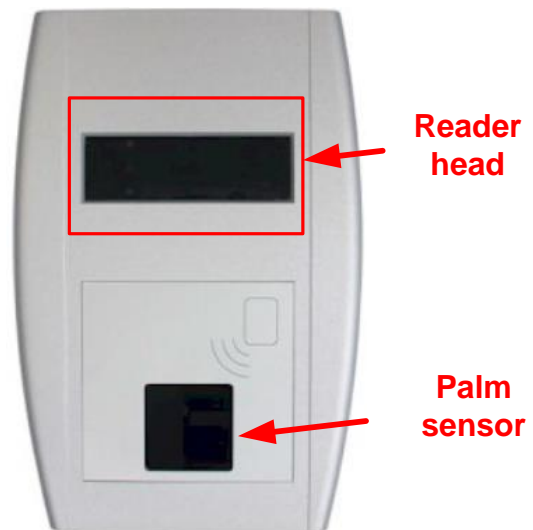
Please ensure that the area is dry, free of dust and, if possible, accessible.

Meaning of the micro-switches SW1

Switch	Description
1-2	For binary setting of the reader addresses 0..3 (e.g. only switch 1 = ON → reader address 1,
4	Default OFF
5	Baud rate setting to XMP-K32/XMP-K32sx/XMP-K12 OFF: 9600 (factory setting); ON = 19200
6	ON = UCI-Protocol
7	Reserved
8	ON = Boot loader activated

Hint for reading distance (PalmVein)

The optimal reading distance between sensor and hand is, depending on your hand size, between 30 and 60 mm above the sensor surface.



Effective range of MIF/HIT/LEG-reader heads

The reader head is located in the marked area on the XMP-TMC2801-PV reader. In this area the ID-cards reads with a maximum reading distance.



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