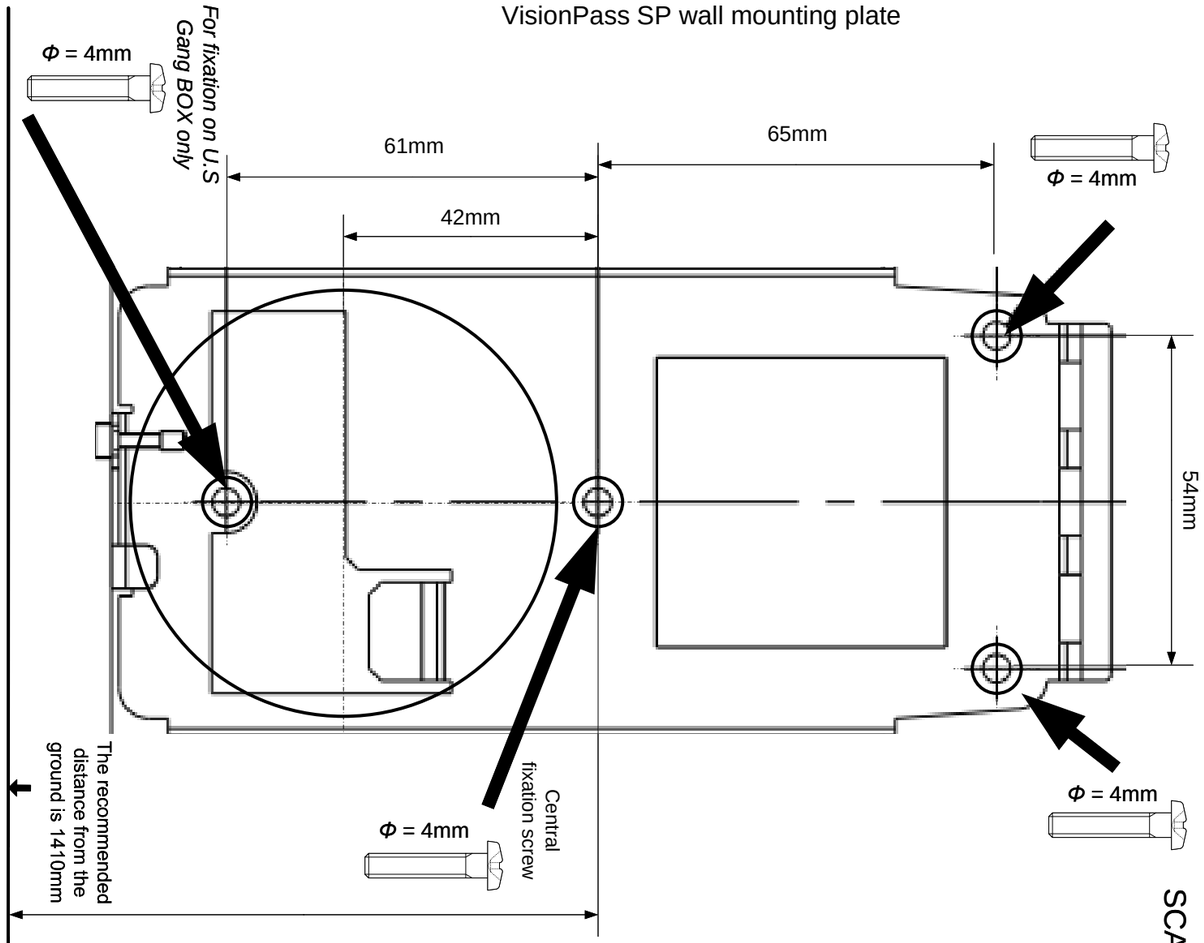
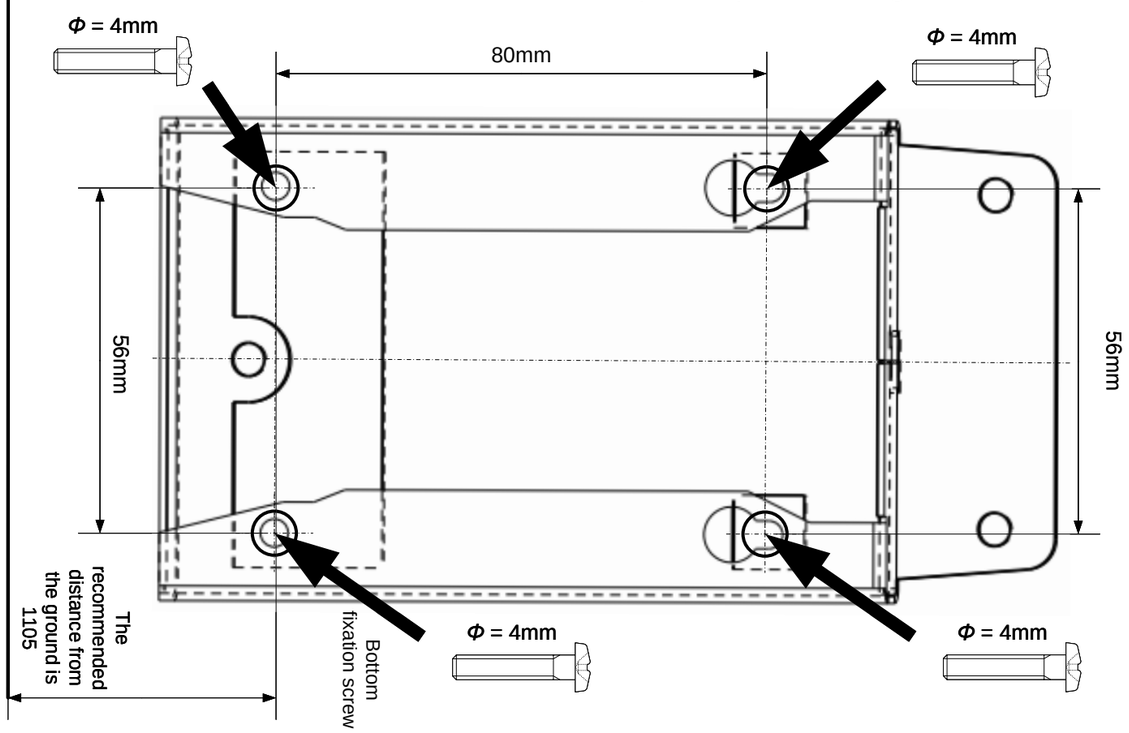
VisionPass SP wall mounting plate



SCALE 1:1

VisionPass SP optional spacer with angle



Technical Support and Hotline

USA & Canada
Mail: support.bioterminals.us@idemia.com
Tel: +1 888 940 7477

LATAM (Latin America)
Mail: support.bioterminals.us@idemia.com
Tel: +1 714 575 2973

EMEA (Europe, Middle-East, Africa)
Mail: support.bioterminals@idemia.com
Tel: +33 1 30 20 30 40

APAC (Asia & Pacific)
Mail: support.bioterminals.in@idemia.com
Tel: +91 8929 159 665

India
Mail: support.bioterminals.in@idemia.com
Tel: +91 1800 120 203 020

293806136-D

Detailed instructions are available at
Des instructions détaillées sont disponibles sur
El detalle de las instrucciones está disponible en

https://biometricdevices.idemia.com

Sh@rePa by IDEMIA

IDEMIA

Head office :
2, place Samuel de Champlain - 92400 Courbevoie

Regulatory, Safety and Environmental Notices

Products bearing the CE marking comply with one or more of the following EU Directives as may be applicable:

Radio Equipment Directive (RED) 2014/53/UE

RoHS Directive 2011/65/EU.

Compliance with these directives is assessed using applicable European Harmonised Standards.

Reach: Declaration letter available on : https://biometricdevices.idemia.com

means Direct Current (DC)

The installation of this product should be made by a qualified service Person and should comply with all local regulations.

This product is intended to be installed with a power supply complying with IEC 60950-1 or IEC 62368-1, in accordance with the National Electrical Code (NEC) Class 2 (NFPA 70) requirements and the local authority having jurisdiction, and with class II according to IEC regulations.

Limited Power source (LPS) should rate 12VDC 2.5A minimum or 24VDC 1.25A minimum, the voltage measured on the product block connector of the terminal must be equal to 12V-24V (-15% / +10%), the power supply cable length should not exceed 10 meters.

In case of building-to-building connection it is recommended to connect 0V to ground. Ground cable must be connected with the terminal block Power Ground.

Note that all connections of the VisionPass SP terminal described hereafter are of SELV (Safety Electrical Low Voltage) type.

This symbol means do not dispose of your product with your other household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment.

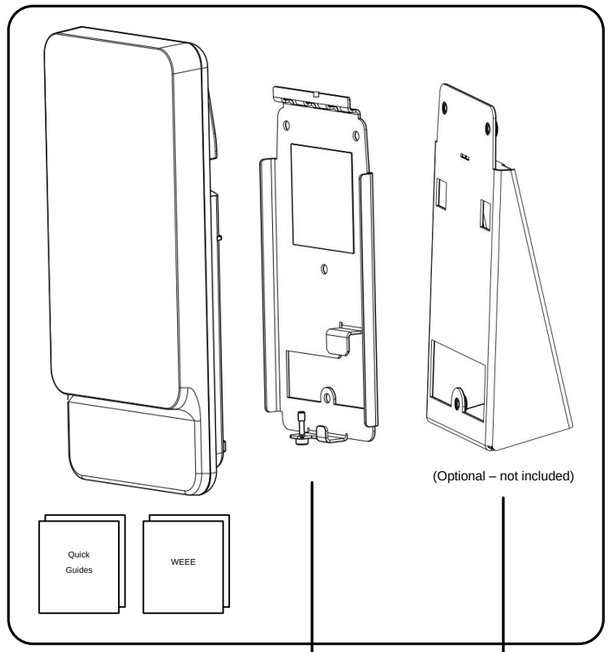
Anatel

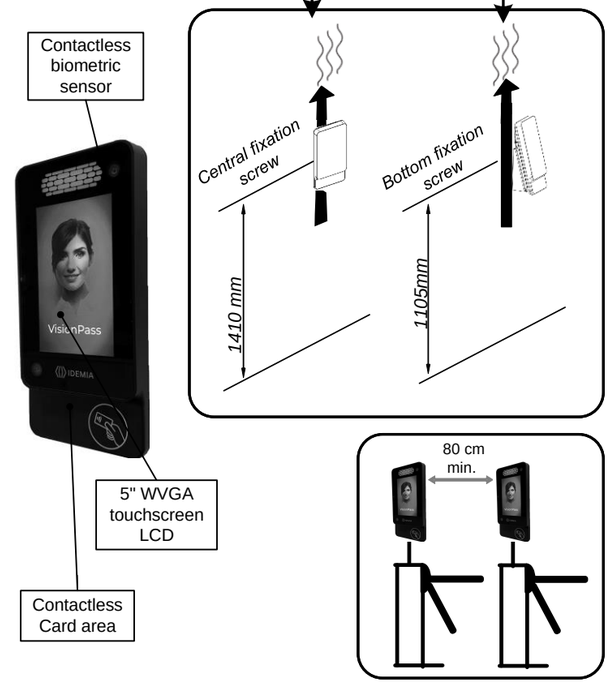
Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Para maiores informações, consulte o site da ANATEL : www.anatel.gov.br

VisionPass SP

Quick Installation Guide





Models:
VisionPass SP MD (MPH-AC008A)
VisionPass SP MDI (MPH-AC008A)

UL294 Performance levels				
Access Control Line Security	Destructive Attack	Endurance	Stand-by Power	Conditions
Level I	Level I	Level IV	Level I	NA

Wiring Overview

WARNING: Power Supply from electrical source shall be switched off before starting the installation.

Before proceeding, make sure that the person in charge of installation and connections, is properly connected to earth, in order to prevent Electrostatic Discharges (ESD).

External Power supply: 12-24 VDC (regulated and filtered) 2.5A min, IEC 60950-1 or IEC 62368-1 standard compliant. If sharing power between devices, each unit must receive 2.5 A (e.g. two units would require a 12 VDC, 5A supply).
For UL 294 compliance the product is to be powered via a UL 294 power supply or access control panel with a class 2 power limited output.
A battery backup or uninterrupted power supply (UPS) with built-in surge protection is recommended.

Power Over Ethernet Plus (POE+) :42,5-57V 25,5W
power can be provided through RJ-45 connector using a PSE (Power Sourcing Equipement) IEEE802.3at type 2 compliant.
For UL compliance the units shall be powered via a UL 294B PSE power supply.
The terminal is a Class 4 (25.5 W) PD (Powered Device).
Note: UL compliance was verified with Phihong model POE36U-1AT-R Primary rated 100-240VAC 1Amp 50-60Hz; 56VDC, 0.6A Pin 3,6 Return = Pin 1,2

IDEMIA recommends using a 24V power supply and AWG16 gauge cable. The voltage measured on the product block connector of the terminal must be equal to 12V-24V (-15% / +10%).
The voltage drop due to the cable shall be taken into account. The table below shows the maximum distance between power supply and 1 unique device, depending on cable gauge and power supply rating.

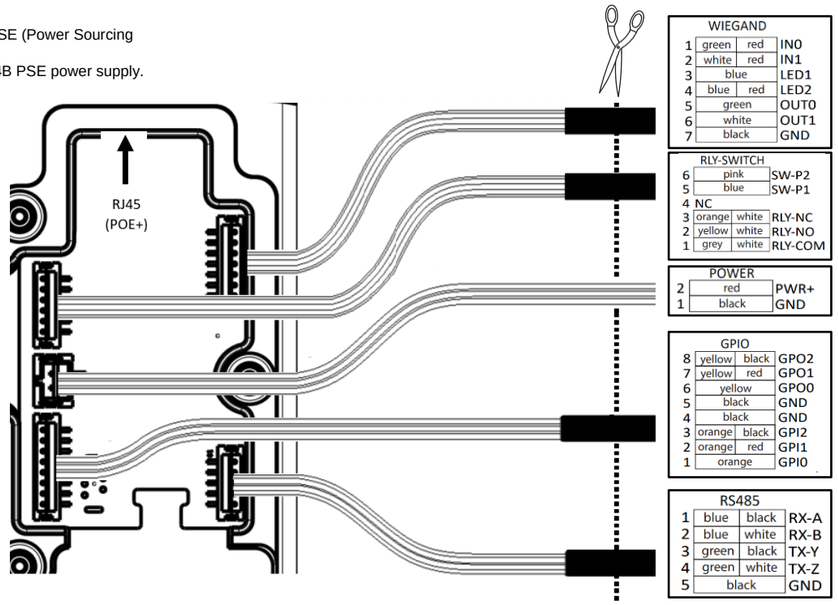
WARNING: Under powering may cause memory and data corruption; over powering may cause hardware damage. Both of these situations will void the warranty

Gauge AWG	Section (mm²)	Maximum distance (meters) vs power source rating		
		12V+/-10%	12V+/-5%	24V+/-10%
16	1.31	15 m	30 m	250 m
18	0.82	10 m	20 m	180 m
20	0.52	8 m	15 m	120 m
22	0.32	4 m	7 m	60 m

Ethernet connection is for supplemental use not UL evaluated.

For UL installations only Wiegand is to be used.
UL has not evaluated GPIO and RS422/485 communication.

Relay output 30VDC, 1 A (Resistive).
Tamper 30VDC, 100 mA (Resistive).



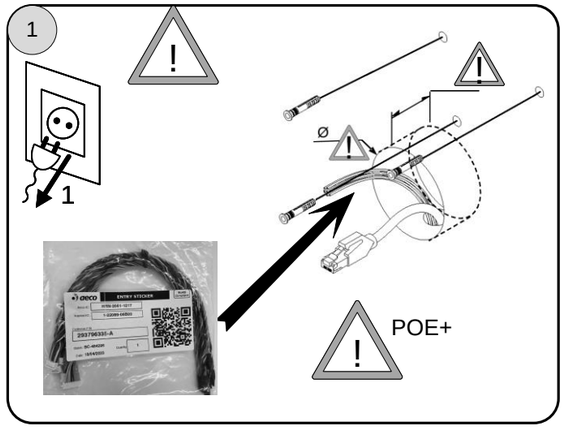
WIEGAND			
1	green	red	IN0
2	white	red	IN1
3	blue		LED1
4	blue	red	LED2
5	green		OUT0
6	white		OUT1
7	black		GND

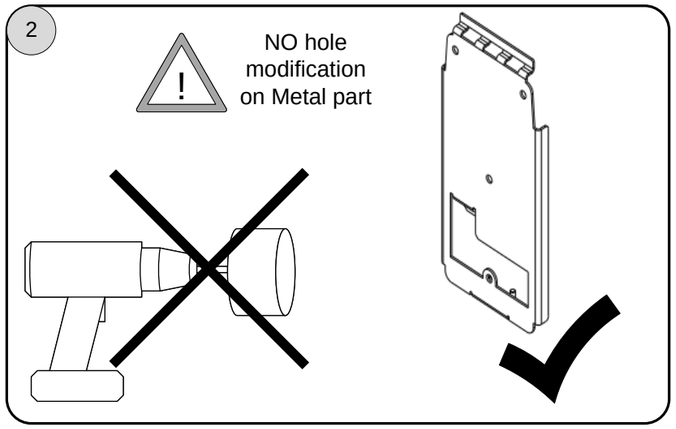
RLY-SWITCH			
6	pink		SW-P2
5	blue		SW-P1
4	NC		
3	orange	white	RLY-NC
2	yellow	white	RLY-NO
1	grey	white	RLY-COM

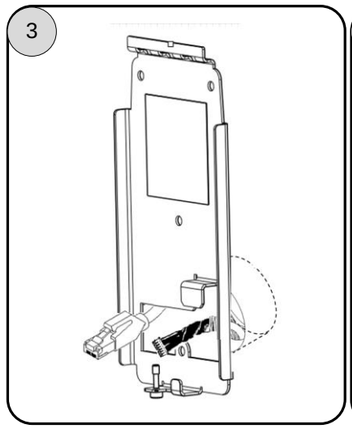
POWER		
2	red	PWR+
1	black	GND

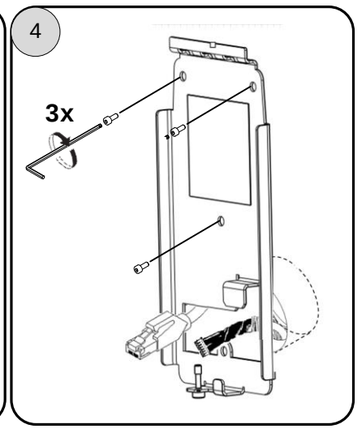
GPIO			
8	yellow	black	GPO2
7	yellow	red	GPO1
6	yellow		GPO0
5	black		GND
4	black		GND
3	orange	black	GPI2
2	orange	red	GPI1
1	orange		GPI0

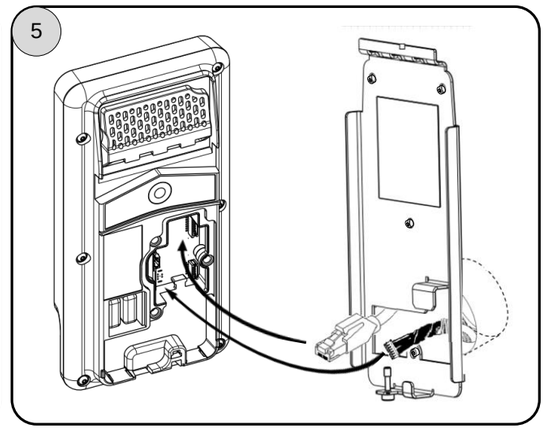
RS485			
1	blue	black	RX-A
2	blue	white	RX-B
3	green	black	TX-Y
4	green	white	TX-Z
5	black		GND

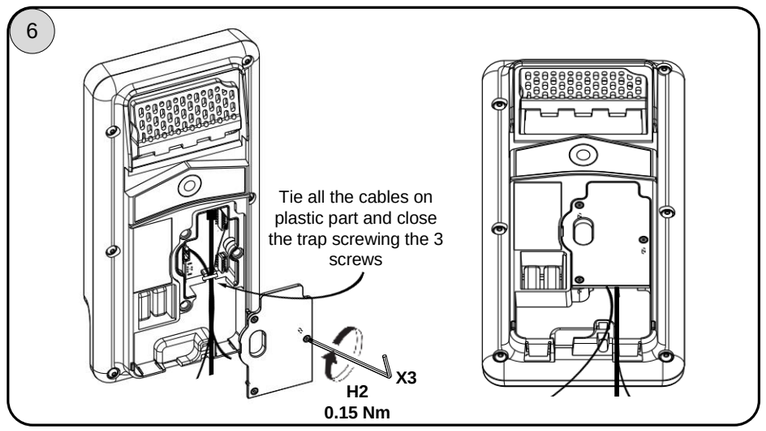


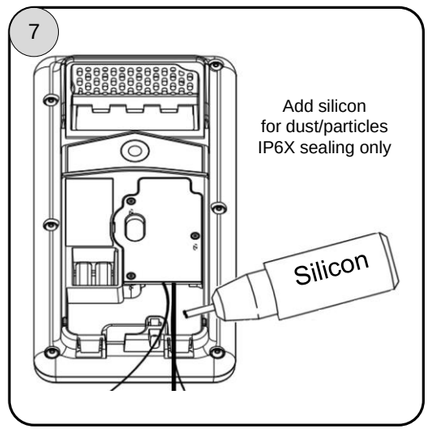


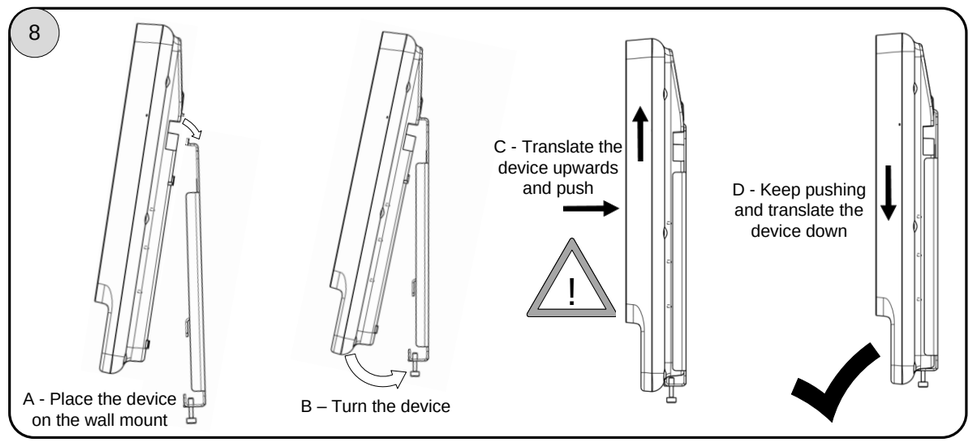


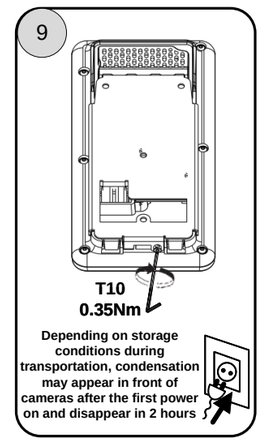












Deployment Environments

Operating temperature	-10° to + 45°C (14° to 131°F)
Operating humidity	10% < RH < 80% (non condensing)
Storage temperature	-25° to + 70°C (-13° to 158°F)
Storage humidity	5% < RH < 95%
Operating altitude	2000m max
IP code	IP65 rated For UL 294 compliance, the products are rated for indoor use

General precautions
- Do not expose the terminal to extreme temperatures.
- When the environment is very dry, avoid synthetic carpeting near the VisionPass SP terminal, to reduce the risk of unwanted electrostatic discharge.

Areas containing combustibles
- Do not install the terminal in the vicinity of gas stations or any other installation containing flammable or combustible gases or materials. The terminal is not designed to be intrinsically safe.

The terminal should be installed in controlled lighting conditions
- Avoid exposure of the biometric sensor to Direct sunlight

The terminal should be installed in controlled area in order to avoid water on the sensor.

For UL 294 compliance, in standalone mode, the unit shall be installed in protected area

Recommendations

The manufacturer cannot be held responsible in case of non-compliance with the following recommendations or incorrect use of the terminal.

Repair and Accessories
- Do not attempt to repair the VisionPass SP terminal yourself. The manufacturer cannot be held responsible for any damage/accident that may result from attempts to repair components. Any work carried out by non-authorized personnel will void your warranty.
- Only use the terminal with its original accessories. Attempts to use unapproved accessories with your terminal will void your warranty.

Date / Time synchronization
- The VisionPass SP terminal clock has a +/- 20 ppm typical time deviation at +25ºC (roughly +/- 2sec per day). At lower and higher temperature, deviation may be greater (maximum : 8sec per 48 hours).
- When the terminal is used for applications requiring high time precision, it is strongly recommended to synchronize the terminal with an external clock.

Firmware release
- To get the best of our technology, we recommend you to download and install the last firmware release. Please check our website.

Overvoltage
- IDEMIA recommends the Biometric devices to be protected with an external accessory in order to avoid overvoltage on input wires or connectors of the device. Typically, risks of overvoltage have been identified on external power management wire, POE connector and wiegand input wire..

WARNING: Cleaning & Disinfection precautions

To clean the terminal, a dry cloth is recommended.

To remove the dust out of the sensor glass, use dry air spray.

To disinfect the terminal, moisten a non-abrasive wipe with the disinfectant Windex® Multi-Surface (or similar product containing L-Lactic acid) or hydrogen peroxide (<3%) and wipe the device's surface and leave the surface wet with disinfectant for at least 5 minutes. Any other practices (bleach, chlorine, soda, alcohol, quaternary ammonium etc) permanently damage and/or negatively impact the performances of the device.