

TWIG Protector Pro Ex

Quick Guide

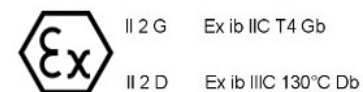
TWIG Protector Pro Ex is your personal safety alarm designed for all areas of personal and professional safety in potentially explosive areas.

Instructed by simple icons, the device is especially suitable for lone workers as well as for applications or situations where simplicity and robustness is a must.

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TWIG Protector Pro Ex is certified by the notified body VTT with EU-type examination Certificate VTT ATEX 040X in compliance with standards EN 60079-0 (2012) and EN 60079-11 (2012) and IECEx Certificate of conformity VTT 16.0009X in compliance with standards IEC 60079-0: 2011 and IEC 60079-11: 2011.

TWIG Protector Pro Ex is an intrinsically safe, waterproof, dust- and impact-resistant mobile safety device for industrial application in areas with an increased risk of explosion in accordance with directive 1999/92/EC (ATEX 137) and 2014/34/EU. Only use of approved accessories is allowed. Twig Com Ltd. declares that this mobile device, type TUP92EU, is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The user of the device is fully responsible for ensuring that the TWIG Protector Pro Ex is used in explosive atmospheres in accordance with the applicable regulations.

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Some of the features described in this guide are optional and intended to be purchased separately. For more information, details and descriptions, including device configuration, assortment of chargers and accessories, visit the web site: www.twigcom.com or contact your reseller.

WHAT TO DO FIRST

Ask TWIG sales to create you a TWIG Point SP account for device

configuration or download PC Configuration software, instructions and USB drivers from <ftp://support.twigcom.com>. If possible turn off the PIN request from the SIM card. If not, change the PIN code to 9999 or change the PIN code that is programmed to TWIG Protector Pro Ex to same that is used in SIM card before switching on the device. Please refer to TWIG Point Remote Configurator or to configuration guide and PC TWIG Configurator program to change the PIN code to that the device automatically uses. **Device must not be connected to PC or any charger with any other cable than FME92EU, CME92EU or CCE92EU.**

INSERTING THE SIM CARD

1. Slide the SIM card to holder from the hole on the side of the device. Contacts in the **micro SIM card** are facing towards keypad and the **cut corner of the card inwards**. Check the markings for the micro SIM card on device cover. Don't use force, as the SIM will go to its place easily.
2. Push the SIM card all the way in with e.g. another SIM card or some small stick. Do not use sharp or metal tools or objects!
3. Insert the rubber plug to the SIM holder opening and seal it carefully with sticker provided in the sales package.

The protection category for the device is IP67. To meet the requirements, the rubber plug must be inserted in place correctly. If the plug is damaged it must be changed immediately to maintain tightness and warranty.

INITIALIZING THE DEVICE

When you start using the device for the first time, you should charge the battery first. Please note that the battery will reach its full capacity only after two or three charging times.

POWER SUPPLY

Device is equipped with system protecting the unit for being overloaded or malfunctioning causing danger to user. In rare cases where the device battery is overloaded e.g. heavy GPRS transmission, the protection system turns the device off. Device can be turned on again by connecting it to the charger. This must not be done inside ATEX area. This is normal policy. It is suggested not to use GPRS to telematics to minimize the possible automatic turning off.

- Mains charger with a charger adapter or a charging station connected with TWIG Ex USB cable of device type FME92EU.
- Device has integrated lithium-ion polymer battery. The battery type and capacity may vary depending on the market area and model of the unit in the sales package.
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MAINS CHARGER

The mains charger CME92EU should only be used indoors. Make sure



that the voltage in the country which you are staying corresponds to the voltage marked on the charger. When charging, connect the mini USB connector to mini USB connector in charging adapter or charging station. Twist the charging adapter to the bottom of the device from keyboard's side down, all the way until it clicks on its place on back cover. **Device must not be connected to PC or any charger with any other cable than FME92EU, CME92EU or CCE92EU.**

CARRYING CASE

Only EX approved carrying case from manufacturer can be used inside EX area.

CHARGING

- Charging is forbidden in Ex area! The device controls the charging status, the battery temperature and power supply during the charging operation. The ideal temperature range for charging is +10°...+30°C. Charging the battery above or below these temperatures may shorten the battery life. Also, the battery may not reach full capacity. Battery charging is not allowed below +0°C or above +40°C. When charging the Li-Ion batteries with the USB charger, about 70% of the battery capacity will be charged quickly, but charging the remaining 30% takes relatively more time. Also note that humidity, temperature, age of the battery and currently used features (e.g. the GPS*) affect the time spent on charging. Please note! If battery is depleted, it may take up to several hours before starting of charging can be noticed. **Device must not be connected to PC or any charger with any other cable than FME92EU, CME92EU or CCE92EU.**

BATTERY CARE, MAINTENANCE AND DISPOSAL

The continuous operating time is less when using an old battery than a new battery. When storing device for a long time, it should be kept cool and with fully charged battery in a dry place. Li-Ion batteries do not contain heavy metals which can damage the environment. The Li-Ion batteries, devices and device accessories should be disposed according to the country-specific regulations or returned to the manufacturer for recycling.

ENVIRONMENTAL EFFECTS IN USAGE

The device must have an unobstructed view to satellites at any time. In marginal conditions (e.g. when staying in surroundings with heavy tree cover or next to high-rise buildings) GNSS* positioning may not work properly. The device can be used like a standard GSM phone with the limited feature set. In some cases, the device can be built in clothes or special vests. If the device is mounted somehow, it must be attached to the surface so that the back of the device is facing up and the top of the phone upwards. To ensure proper functioning of the GNSS* and GSM, the unit can be covered with thin low loss material such as plastic, fibre glass or clothes, but not with metal. This is regarding particularly to GSM and GNSS* antenna areas!

TEMPERATURE RANGES

- Usage is allowed only at temperatures above -20°C or below +40°C!
- Charging: Battery must not be charged below 0° or above +40 °C. Charging is forbidden in Ex area!

USER INTERFACE

LOUDSPEAKER

DISPLAY

- GSM status
- GNSS status
- Battery status

SEND KEY

- Answer calls
- Make information call / send position

NUMBER KEYS

- Make information calls / send position

MICROPHONE

NO METAL
STICKER HERE!

SYSTEM

- Connect charger or data cable to the device

DISPLAY SYMBOLS

DEVICE IN STAND-BY MODE

MOBILE NETWORK

BATTERY

NETWORK / OPERATOR / SERVICE PROVIDER

STRAP HOLE

END key

- Reject / end calls
- Cancel some operations
- Power on / off

SOS KEY

- Make emergency calls / send emergency reports

TYPE LABEL

SIM HOLDER

BATTERY STATUS



The water level indicates charge left in the battery. The higher the level, the more charge is left.



During charging, the battery symbol is changed to indicate this event.

GSM / GPRS NETWORK STATUS



GSM is on.



GPRS is used for telematics.



GPRS is active for telematics.



GSM is roaming. Phone is using other than home network. Call and position transmissions are charged according to roaming agreements. Position transmissions may have been blocked automatically.



GSM network strength. The more bars and the taller the bars, the better the GSM network.
- Four bars - high network strength
- No bars - no network

GENERAL STATUS SYMBOLS



SOS call is active.



SOS call is in post emergency mode. Position requests are possible from emergency numbers.



Tracking is active to one or more destinations.



ManDown alarm is active / failed. Automated emergency cycles are possible.



Wireless Alert (SRD device) connection available / failed.



Amber Alert / Condition Check is activated. Automated emergency cycles are possible.

GNSS POSITIONING STATUS



GNSS is active.



GNSS is sleeping.



GNSS is not available.



Accuracy of the last GNSS position. The more bars and the taller the bars are, the better is the accuracy of the last GNSS position. If the position is older than 1 – minute the signal bars are displayed as wireframes.



GNSS sleeping due to poor satellite coverage.



DISPLAY TONE NOTIFICATIONS

GENERAL NOTIFICATIONS



Processing. An operation is in progress, please wait.



General failure. Displayed when an operation fails. E.g. if you try to make a call when there is no number pre-configured in the device. Simultaneously, the failure tone is played.



SIM failure. Displayed when there is no SIM card inserted in the device, or if the PIN code was rejected. Simultaneously, the failure tone is played.



Retry or discard symbol is displayed when e.g. RF identifier is read and the transmission of data fails. Pressing the green key retries and the red key fails.

CHARGING NOTIFICATIONS



Battery low. Displayed when there is a need to recharge the battery (or replace it with another recharged battery). Simultaneously, the battery low tone is played.



The device is connected to a charger. Settings during battery loading take place. Simultaneously, the charging tone is played.



The device is disconnected from the charger. Settings during battery loading are ended, the device returns to normal operation



The device is charging and the battery is still too empty to restart the device.



Battery is too low to charge. This symbol is displayed when initial charging of empty battery is ongoing and user tries to turn device on. Device will turn on after a while.

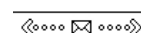
NOTIFICATIONS REFERRING CALLS OR MESSAGES



Normal incoming call. If available, the name associated with the calling number/the phone number itself is displayed on the bottom. Displayed until the call is answered (to answer, press SEND key).



Initiating information call or position report. Press the SOS key and hold it down while this notification is displayed.



Sending a position report. Simultaneously, the message sending tone is played.



Making an information call. Displayed until the call is answered.



A call is in progress. Displayed while the call is connected.

START EMERGENCY CYCLE NOTIFICATIONS (DISPLAYS ON)



Starting emergency cycle (a long press): Emergency tone settings are switched on. Press the SOS key and hold it down until the wedges are all turned black.



Starting emergency cycle (two quick presses): Press the SOS key briefly. Emergency tone settings are switched on. Press the button again when the second circle starts blinking.



Emergency cycle cancellation period. A countdown timer is displayed on the bottom. The timer counts the cancellation time left (in seconds). Simultaneously, the cancellation tone is played. To cancel the emergency cycle, do it while this notification is displayed (by pressing the END key).

OTHER EMERGENCY CYCLE NOTIFICATIONS (DISPLAYS ON)



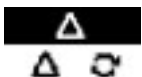
Emergency cancellation. Displayed right after the emergency cycle was cancelled.



Emergency completion. Displayed when the emergency cycle ends normally, or when the emergency mode is ended manually.



Emergency call retry. Emergency numbers can be voice call numbers. The notification is displayed when the device makes another call attempt to a number.



Emergency mode/Working. The device is through with emergency calls, but sending messages, message confirmation or position refresh is still going on.



Emergency confirmation message received. After receiving confirmation, the device will end resending of an emergency message. Simultaneously, the message reception tone is played.



Post-emergency mode. The GSM operator's name is replaced by the emergency symbol. While this notification is displayed, the device can be tracked by emergency numbers, also emergency tone and display settings are kept on. This mode can be terminated manually, by pressing the END key.

NETWORK EMERGENCY CALL (112, 911, 000, 999, 08 etc)



Network emergency call query. Displayed when the SOS key is pressed but making emergency cycle is NOT possible (e.g. SIM card is missing or no roaming network available). You may still try to make network emergency call by pressing END key. You can also exit the query without making an emergency call by pressing END KEY.

DISCREET EMERGENCY CYCLE (DISPLAY NOTIFICATIONS OFF)



During the discreet emergency cycle, the device looks like it is in stand-by mode. The only indicator of the ongoing emergency cycle is the emergency cycle indicator appearing to symbol area. When the symbol disappears or changes, cycle is over or moved to post emergency mode. Also tones can be turned off.

NOTIFICATIONS CONCERNING MANDOWN ALARMS



Pre-alarm for ManDown alarm is not set. Displayed when "the cancel timer" is not configured, and emergency cycle starts right away. To mute the audible alert tone, press the END key



Pre-alarm for ManDown alarm is set. The countdown timer shows that you still have 27 seconds time left to cancel the sensor alert if you want. To cancel the emergency cycle, lift the device to vertical position. Do it while this notification is displayed. To let the emergency cycle take place: Do nothing. To mute the audible alert tone, press END key.



Alert state ended. Displayed right after the emergency cycle is finished, or the sensor alert is cancelled.



Post-alarm state. Displayed when the emergency cycle is completed, and the device makes audible alarms at regular intervals. You can receive phone calls and answer them by pressing SEND KEY. In order to stop the post-alarm tone, the device must be lifted up to vertical position.



Pre-alarm cancel. Displayed when pre-alarm cancel is enabled. When enabled, user can cancel ManDown pre-alarm, triggered by change of orientation or no movement, by pressing END key.

BASIC KEY FUNCTIONS

TURNING THE DEVICE ON

1. Press END key and hold it down for a few seconds.
2. The logo is displayed.

TURNING THE DEVICE OFF

1. Press the END key and hold down for a few seconds.
2. The Power off symbol is displayed and tone is heard.

Note, powering off may be prevented by configuration.

ADJUSTING VOLUME DURING A CALL

Press the 1 and 2 keys during call. 1 to lower and 2 to rise volume.

ANSWERING INCOMING CALLS

Press the SEND key when the device alerts.

NOTE: The device may be configured to answer some/all incoming calls automatically. It may even be, that all incoming calls are blocked and you cannot receive calls.

DROPPING/ENDING/CANCELLING A CALL

Press the END key briefly.

MAKING AN INFORMATION CALL

Press the SEND key and hold it down for a few seconds. The device will call to configured number.

SENDING POSITION REPORT

1. Press the corresponding number key and hold it down for a few seconds.
2. After sending the position report, the device may receive an incoming information call - depending on service.
3. When the device starts alerting, answer the call by pressing the SEND key.

NOTE: The device may also be configured to answer the call automatically.

MAKING EMERGENCY CALLS AND SENDING EMERGENCY MESSAGES (EMERGENCY CYCLE)

Press the SOS key according to configuration (a long press or two quick presses). The device will make emergency calls and send emergency reports (emergency messages including position information) according to configuration.

CANCELLING EMERGENCY CYCLE

During cancellation period you may hear the cancellation tone and see timer showing time left for cancellation.

- To cancel the entire emergency cycle, press the END key briefly during the cancellation period.
- When the emergency cycle has already started you may, depending on configuration still cancel the rest of the calls and messages: Press the END key and hold it down for several seconds. After successful cancellation the device will return to normal operation and switch back to normal tone and display settings.

ENDING EMERGENCY MODE MANUALLY

The emergency mode must be terminated manually. This means, the emergency tone settings are kept on and the emergency numbers are

permitted to track the device without further notice.

Emergency tones and tracking option are switched on from the moment you start the emergency cycle (by pressing the SOS key) until you end the emergency mode (by pressing the END key briefly). Another alarm cycle is not possible before previous is ended.

CIRCUMSTANCES AFFECTING EMERGENCY CYCLE AND MODE

- Being in a shadow area of the GSM network at the time of the event.
- Poor GPS* coverage during emergency cycle may cause the emergency cycle completion to slow down.
- Busy telephone lines when connecting (voice) calls.
- Message transmission errors caused by the carrier of an SMS/GPRS, i.e. the network operator.

SENSOR ALERTS

- To cancel sensor alert and prevent emergency cycle from starting, change the phone to allowed position (horizontal or vertical) or move it gently if it is configured to detect only movement. Do it while the countdown timer is still displayed. To let the emergency cycle take place: Do nothing. To mute/unmute the audible alert tone, press the 1 key.

INCOMING/OUTGOING MPTP MESSAGES

- The device may send or receive some MPTP messages. In most cases, messages are either remote configuration/activation messages, some notifications, emergency reports or various types of position messages and they work autonomously according to configuration. In most cases there are no display notifications. Message sending/reception tones are configurable (beep sound as a default).

HANDLING AND MAINTENANCE

NOTE: The instructions below apply to the device, its accessories, batteries in use as well as batteries taken out of use. Dust and dirt may damage the moving parts of the device. Do not use or keep the device in dusty or dirty surroundings.

- Do not open the device or battery by yourself or pierce holes in it.
- Rough handling may break the circuitry inside the device. Do not drop, knock, twist or shake the device or its battery.
- Keep the device dry. Liquids contain minerals which could corrode electronic circuits. If the device gets wet, turn it off and dry the device and the battery immediately. Put the device into an upright position and let it dry. It is recommended that a reseller or service personnel check that the device functions properly.
- Even though the device is waterproof, do not wet the device unnecessarily or immerse it in water.
- Protect the device from heat. High temperatures may shorten the life of the electronic devices, melt or warp plastics and damage batteries. Do not warm up the device or battery or use it near fire.
- Do not short-circuit the battery or battery contacts. Exposing the metal strips of the battery to a close contact with a metallic object, such as a coin, a clip or a set of keys can cause accidental short-circuiting and damage the battery.
- Charge and recharge the battery only with the charger specified in the Operating instructions/Quick Guide. Use the battery only for the purpose it is intended.
- Clean the device with a soft cloth, dampened slightly with mild soapy water. Do not clean the device with harsh chemicals, solvents or other corrosive substances.
- Only allow service personnel authorised by the reseller to repair the device.

SAFETY INSTRUCTIONS

These safety instructions contain information and safety regulations which are to be observed without fail for safe operation in the described conditions. Non observance of this information and these instructions can have serious consequences or it may violate regulations. Please read these safety instructions carefully before starting to use the unit. In case of any doubt (in the form of translation or printing errors) the English language operating instructions shall apply.

FAULTS AND DAMAGES

If there is any reason to suspect that the safety of the unit has been impaired, it must be withdrawn from use and removed immediately from the Ex-area. Measures must be taken to prevent it from being restarted accidentally. The safety of the device may be compromised, if, for example:

- there is visible damage to the housing.
- the unit has been subjected to excessive loads.
- the unit has been improperly stored.
- the unit has been damaged in transit.
- unit markings or inscriptions are illegible.
- malfunctions occur.
- permitted limit values have been exceeded.

SAFETY REGULATIONS

Use of the mobile safety device TWIG Protector Ex assumes that the operator complies with conventional safety regulations and has read the certificate in order to eliminate faulty operation of the unit. The following points are to be observed:

- The battery of the device may not be changed inside the Ex-area.
- The battery of the device may only be charged outside the Ex-area and only then using the original mains charger or USB data cable.
- The cover for the SIM card must be closed in the Ex-area.
- The SIM card may not be changed in the Ex-area

Only approved TWIG Protector Ex accessories may be used.

- Connecting USB cable or any other connector to device is not allowed in Ex-area.

- Opening and repair of the device is only permitted in the factory service
- User takes full responsibility on making sure that device may only be used in areas which are in accordance to the Ex approval of the unit printed in the type label of the unit.

TELEMATICS PROTOCOL

MPTP (Mobile Phone Telematic Protocol) allows, among other things, tracking of the device over the SMS communication. Automatically sent telematics messages are only allowed to authorised numbers configured in the device. Such numbers can be, e.g. emergency and service center numbers. Position of the device is retrieved by the GPS*, or by the network parameters -the latter is a network-dependent service. The carrier for telematics messages is an SMS-message. Deliveries of all messages is fully handled by and in the responsibility of the GSM network operator and services can vary substantially. The charge of a protocol message is determined on the contract by the service provider. GNSS/GPS*

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The system is subject to changes that could affect the accuracy and performance of all GPS equipment. EMERGENCY CALLS The device is an aid and should never be relied upon as an only emergency device. Its functionality is dependent on GSM network and GPS satellites which may not be available all the time. To make emergency calls, the device must be turned on and located in an area with adequate GSM network signal

strength. Making an emergency call also requires GPS satellite coverage and a valid SIM-card. Emergency calls may not be possible on all GSM phone networks or when certain network services or phone features are in use. In unclear cases, consult the network operator. TWIG POINT NETLOC COSTS The first year of TWIG Point Netloc is free of charge. Please note: TWIG Point Netloc is not working if the service renewal payment is not made after the first year free of charge. Twig Com Ltd. does not take any responsibility of any consequences due to a delay or non-payment of the TWIG Point Netloc service use after the first year free of charge.

GENERAL

- Traffic: Strictly adhere to all eventual European and national legislation and also honour other eventual safety recommendations when using the device while driving a vehicle. Place the device in its holder, do not leave it on the passenger seat or some other place where it can break loose in a collision or a sudden stop. When receiving a call in an awkward driving situation, you must always put safety before other priorities and courtesy. If you feel uncomfortable about using a device while driving, you should not use it.
- Vehicles with air bags: An air bag inflates with great force. Do not place objects, including either installed or portable wireless devices, in the area over the air bag or in the air bag deployment area.
- External alert: The use of the alert device to operate a vehicle’s lights or horn on public roads is not permitted.
- Children: Keep the device and its accessories away from small children to avoid causing injury to themselves or others. Damage to the device or its accessories is also thus avoided.
- Power supply: This equipment is intended for use with the specified power supplies listed in the Quick Guide/Operating Instructions. Any other usage will invalidate any approval given to this apparatus and may be dangerous. **Device must not be connected to PC or any charger with any other cable than FME92EU, CME92EU CCE92EU**
- Other accessories: Any other accessories used should also be approved by the device manufacturer. Check the compatibility of new power supply units and other accessories at the reseller or manufacturer.
- Connections: All installations, connections and service regarding the device, its power supply and accessories should be approved by the device manufacturer. Use of any unauthorized accessories, modifications or attachments may be dangerous and voids the device warranty if said accessories cause damage or a defect to the device.
- Magnetic fields: The device contains small magnetic components. Even though the magnetic fields of the components are weak, they might damage magnetic cards, such as bank and credit cards. We recommend that you would keep the device away from magnetic cards.
- Storing positions: Position information is stored correctly in the device when the GPS* is turned off (from the GPS menu) or powered off (by pressing the topmost side key). To prevent the memory from becoming corrupted, never power off the device by removing the battery.
- Neodymium magnets: Some models include strong magnets. Magnets could affect the functioning of pacemakers and implanted heart defibrillators. If you wear these devices keep sufficient distance to magnets. Warn others who wear these devices from getting close to magnets. Keep magnets away from devices and objects that could be damaged by magnetic fields.
- Real-time monitoring
- A continuous real-time monitoring may lead to over-heating of the device and shut it down.
- ManDown++ impact

RADIO FREQUENCY (RF) ENERGY

Transmission frequencies and power for TUP92EU Ex device types in EU are listed in the table below.

Transmitter	TX frequency bands / MHz	Max power / dBm
GSM 900	880-915	33
GSM 1800	1710-1785	30
WCDMA 1	1920-1980	23
WCDMA 8	880-915	23
SRD*	868.218"	5
SRD*	869.675"	-5
2.4 GHz WLAN*	2412-2472	20
Bluetooth*	2402-2480	10

Note: different frequencies in Australia!

- Aircrafts: Turn your device off before boarding any aircraft and do not use the device while in the air. Besides being illegal, the use of a device in an aircraft may endanger the operation of the aircraft or disrupt the mobile network. Failure to comply with this instruction may lead to suspension or denial of mobile phone services, and possibly even legal action.
- Hospitals: Turn your device off before entering hospitals or other health care facilities where medical electronic equipment may be in use. Such devices can be extremely sensitive to radio frequency interference. Only use the device with permission and under the instruction of hospital staff.
- Medical devices: Remember that any personal medical devices (such as hearing aids or pacemakers) may be affected by RF energy if they are not adequately shielded. Consult the manufacturer or vendor of the equipment to determine the proper shielding.
- Posted facilities and country-specific regulations: Power off the device in any facility where posted notices require to turn off mobile phones. Also follow all the country-specific regulations applicable to where the device is used.
- Potentially explosive atmospheres: Turn off the device at refuelling points, e.g. gas stations. Also observe restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress because remote control RF devices are often used to set off explosives. Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the device, its parts or accessories.
- Other electronical equipment: Using the device may cause interference with a vehicle’s electronic equipment if it is not adequately shielded. Consult the manufacturer or the vehicle seller to determine the proper shielding.
- Computers: Remember that using the device close to a computer may cause interference. When using your device near such equipment keep a distance of about one meter.
- Body parts: When the device is in operation do not touch the antenna with eyes, mouth or bare skin to guarantee proper function.

WARRANTY

- Twig Com Ltd. warrants to the original purchaser (“Company”) that this Twig Com device and all accessories originally provided by Twig Com in the sales package (“Product”) are free from defects in materials, design and workmanship under normal use in accordance with the operating instructions and pursuant to the following terms and conditions. Warranty periods are determined with the purchase agreement. Individual warranty terms and conditions are available from Twig Com or from local distributor. The warranty is void if the device is opened or the warranty seal on the screws are tampered. *Some product versions only.