SAFETY WARNINGS

Short programming manual is recommended for professional installers who are experienced in the installation of intruder alarm systems and have already read the SECOLINK wiring manual. The wiring manual must be read before the installation to avoid accidents with high voltage and temperature.

The device must be connected to AC power supply with Protective Earthing. Cable colour and purpose: Phase or Live line (L) - black or brown cable, Neutral line (N) - blue cable, Protective Earth line (PE) - green cable with a vertical yellow stripe. Only double isolated cables with cross-sectional area of no less than 0,75 mm^2 shall be used for 230V power supply.

Additional automatic two-pole circuit breaker should be installed in AC electric power circuit in order to prevent over-current and short circuits. The circuit breaker should be placed close to the system's housing and should be easily reached. Full shutdown could be done by turning off 230V AC main power supply with automatic two-pole circuit breaker and by disconnecting the battery. Before performing any installation work or maintenance ALWAYS disconnect the device from the power supply.

DEFAULT TEMPLATE

The system is shipped from the factory with specific default values (further default template) suitable for a typical installation. If the default template is suitable for your installation, then programming can be simplified. If template is not suitable for your instalation, then you can easily customize this default template with the software MASCAD. Download MASCAD at www.secolink.eu prior to installation:

1.Connect the keypad to your computer using a USB cable (keypad should not be connected to system data bus).
2. Download default template from the keypad to software MASCAD (use the tab *Project data sending/receiving*).

Note: the default template can be different for different countries. Check a sticker on the keypad for a country prefix or pre-installed template code. Example: KM20B_EN.

3.Once you customize the predefined template, you can use it to program an individual system or thousands of systems.
4. DO NOT FORGET to upload the customized template (further project) back to the keypad (use the tab *Project data sending/receiving*).

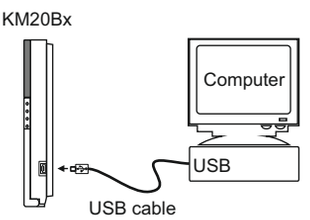


Fig. 1 USB connection

STARTING THE SYSTEM WITH A SINGLE KEYPAD

Upon power-up of the system, the keypad will display a phrase *First Start Press [ENT].* It means that the keypad is ready to run an automatic module registration procedure and later send the default template (or customized project) to the control panel and all successfully registered system modules.

On the keypad's LCD :

First Start Press [ENT]	Entering Service	Registering...	From KM20 to CP Processing...	Leaving Service
Press the [ENT] key.	Entering Service.	Registration of modules is in progress.	Template is being sent to the system.	Leaving Service.

STARTING THE SYSTEM WITH MULTIPLE KEYPADS

No Control Address 00 phrase will display upon power-up of the system with multiple keypads. It means that the keypad has the same address in the system as the other keypads or modules. Press the [∗] key on a keypad which will become the primary keypad. The primary keypad should become the one which has a customized project OR it could be any keypad if the default template is not customized. When the [∗] key is pressed the keypad will emit a short audible signal and a phrase *First Start Press [ENT]* will appear on the screen.
Simply press [ENT] if the primary keypad contains a customized project with precise module addressing. If the primary keypad contains just a default template, then use keys [1], [2], [3], [4], [5] to manually assign the address to each keypad. When all addresses of the keypads are assigned, return to the primary keypad and press the [ENT] key. All keypads will be registered according to their addresses, which were given manually. **Note:** the keypad will remain unregistered if you will forget to assign the address.

For a small system with a few keypads, it is recommended to choose addresses of keypads in 01 - 04 range, and for a large system in 01 - 04 and 10 - 15 ranges. This is done ir order to not disturb the default addresses of other modules with the addresses of the keypads.

Selecting the primary keypad :

No Control Address 00	Processing...	First Start Press [ENT]
Press the [∗] key.	Processing ...	Primary keypad

Manually assigning addresses to other keypads:

No Control Address 00	No Control Address 02	No Control Address 03 Used
Enter the address	Assigned address 02.	Used. Choose another.

DEFAULT ADDRESSES OF THE MODULES

System manufacturer has provided the modules with default addresses assigned to them. This is done in order to simplify the process of registration for most frequently used combinations of the system modules (such as PAS808M, KM20B, GSV6U or PAS816, KM24A, EXM800, EXT116S, GSV6U). While registering modules of a different type, you will not need to enter serial numbers of each module, as the system will automatically assign default addresses for the modules that are listed below:

- For all control panels - address **00**;
- For the keypad **KM20B**, **KM24**, **KM25** - address **01** or **03**;
- For the keypad with a temperature sensor **KM24A**, **KM24G** - address **02** or **04**;
- For extra power supply module **PWR20** - address **04** or none;

- For the zone/PGM expansion module **EXM800** - address **05**;
- For the remote control module **EXT016**, **EXT116S**, **EXT216** - address **06**;
- For the proximity reader **PROX8** - address **06**;
- For the GSM/GPRS, LAN communicator **GSV6U**, **GSVU** - address **07 or 11** (for GSVU);

ENTERING SERVICE MODE

It is recommended to use the computer and software MASCAD for the installations with few partitions and more than 10 zones. For simple installations it is more efficient to change the template manually by using the LCD keypad. Changes should be made in service mode when the system is disarmed.
For security reasons permission to access the service mode has to be enabled by entering the user's PIN (default PIN codes: first user - **0001**,service - **0000**). There are 2 ways to enter the service mode:

- by navigating the menu:

Main Menu: ◂ Service Mode ▸	Enable Service: User PIN:****	Service Mode: ServicePIN:****	Entering Service

- by using the F-key:

F - key F33 SERVICE mode	Enable Service: User PIN:****	Service Mode: ServicePIN:****	Entering Service

There is an option to set the system without entering the required user's PIN that is needed to access the service mode. To do this, you will need to modify the template by using software MASCAD:

1. Connect the keypad to your computer using a USB cable.
2. Establish a connection with the computer. Using the keys with arrows go to the menu: *Service Mode* ▸ *Project Loading* ▸ *Open USB port*.
3. Download data from the keypad to software MASCAD (use the tab *Project data sending/receiving*).
4. Go to tab *F-key*.
5. Click on row *F33 SERVICE Mode* and uncheck the box *User PIN required* from the settings (see Fig. 2).
6. Upload the customized project back to the keypad (use the tab *Project data sending/receiving*).

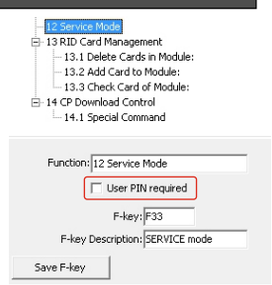


Fig. 2 Tab *F - keys*

MANUAL REGISTRATION OF MODULES

Control panel PAS808M supports up to 7 modules and control panels PAS816, PAS832, P16, P32 supports up to 15 modules. If there are a few modules with same default addresses in the system (for example: several EXM800 or GSV6U and LAN800 modules), only the module with a greater serial number will be registered during the module registration procedure. All remaining modules (not registered) must be registered manually.

Fig. 3 EXM800 label

To register the module, an installer must enter the service mode, type in a 10 digit serial number, which is on the module's label (see Fig. 3), then press the [ENT] key to jump to second row, enter module address of the system, and press [ENT] again to start registration.

Service Mode ▸ *System setup* ▸ *Modules* ▸ *Manual registr.*

Service Mode: ◂ System Setup ▸	System Setup: ◂ Modules ▸	Modules: ◂ Manual registr ▸	SN:3221226047 Address: 6	Registering...

The module will start to flash its address with the green LED after a correct serial number and address is entered. If a mistake was made while entering serial number, the module will stay unregistered. If a mistake was made while entering the address which is used by another module, then the new module will overtake this address and the other module will stay unregistered.

Note: a registered module will slowly flash its address on a green LED, which is located on the module's PCB (excluding keypads and a control panel). If the green LED is steady On it means that the CLK, DAT wires are not correctly connected.

PARTITIONS

Partitions allow you to break up a large area into smaller sections. This feature is useful to disarm certain areas while leaving other areas armed, or to limit access of certain areas to other users.

Service Mode ▸ *System Setup* ▸ *Partitions*

P01◂Name ▸ Apartment	It is recommended to give an appropriate name to a partition. The system will use it when sending SMS or when showing the status of the partition on keypad's LCD. For next character possition press [◂] or [▸] key. Move the cursor on the wrong character to delete it and press [0].
P01◂In Use ▸ Yes	The alarm system can be divided into 4 partitions for operation flexibility. Confirm the activation of a new partition by selecting *Yes*. Press [∗] or [7] key for the next partition.
P01◂Exit Delay ▸ 30 seconds	*Exit Delay* time is same for all partitions in control panel PAS808M, but it can be different for each partition in control panels PAS816, PAS832, P16, P32.
P01◂Timers ▸ -Timer 01 P01 Timers ◂+Timer 02▸	In this menu it is possible to assign the timer(s) to partition. Auto-arming starts at a specific time of day and arms the partition in *Stay* mode. Auto-arming will be aborted if any of the zones in partition will be violated or trouble will appear during the exit delay. Use the [ENT] key to access the menu, then press [#] to assign a timer to the partition. Save changes by pressing the [ENT] key. **Note:** program system timers in the menu: *Main menu* ▸ *Settings* ▸ *Timers*).

MODULES

Control panel PAS808M support up to 7 modules and control panels PAS816, PAS832, P16, P32 supports up to 15 modules.

Service Mode ▸ System Setup ▸ Modules ▸ Settings

Basic settings for all modules:

```
M00◂Name      ▸
Control Panel
```

It is recommended to give an appropriate name to module. The module name will appear on keypad's LCD if there will be any trouble with the module.

Registered module address is shown on the upper-left corner of LCD (eg. M00 = 00 address). Please remember the module address and use it to program zones and PGM outputs.

```
M00◂Type      ▸
PAS832
```

Registered module type is shown on LCD. Available module types: PAS808M, PAS816, PAS832, P16, P32, KM20B, KM24, KM24A, KM24G, KM25, EXT016, EXT116S, EXT116VM, EXT216, GSV6U, GSVU, EXM800, PROX8, PWR20, and LAN800.

```
M00◂Serial No.▸
 805308385
```

Registered module serial number is shown on LCD. If you don't see the module serial number, it means that module is not registered in the system. See page 2 for more information about manual module registration.

```
M00◂Use Tamper▸
  Yes
```

For additional security it's recommended to use tamper to protect modules. Tamper can be activated by using:

- Z6 - on control panels;
- Z1 - on EXM800;
- back switch - on keypads.

If *Use module tamper* selected as *No*, then zones Z6 on control panel and zone Z1 on EXM800 can be used as regular zone terminals.

Extended settings for keypad:

```
M01◂Extend.Sett▸
  KM24G
```

Use the [ENT] key to enter to extended settings menu.

```
◂Fire Alarm   ▸
 Yes
```

```
◂Medical Alarm▸
 No
```

```
◂Panic Alarm  ▸
 No
```

The keypads have additional keys dedicated for emergency conditions. These can be activated by pressing both emergency keys at the same time (see user manual). However, in some places like a corridor it is recommended to disable emergency keys to prevent false alarms.

```
◂Partitions   ▸
  +Partition  01
```

All partitions are usually assigned to the keypad by default. All events related to all partitions are shown on keypad LCD. If there is a need to monitor only one of all enabled partitions, then assign this partition to the keypad. Use [ENT] key to enter to menu, then press [#] key to assign partition to the keypad. Save changes by pressing the [ENT] key.

Extended settings for PROX8 module:

```
M06◂Extend.Sett▸
  PROX8
```

Use the [ENT] key to enter to extended settings menu.

```
◂Installation ▸
 Outdoor
```

This setting is related with entry/exit counting when the module is installed indoors or outdoors. If proximity reader is installed outdoors, then the entry/exit delay is excluded.

```
◂Preferred mode▸
 Away
```

```
◂Second mode  ▸
 Night
```

```
◂Third mode   ▸
 Stay
```

```
◂Fourth mode  ▸
 Max Away
```

The preferred arming mode will appear as a first option. With preferred arming mode selected correctly the user will spend less time on arming. Arming mode is indicated by a color of PROX8 LED:

- *Away* - red color;
- *Night* - blue color;
- *Stay* - green color;
- *Max Away* - white color.

Note: if there is a need of only 1 arming mode, program all options with the same arming mode.

```
◂Partitions   ▸
  +Partition  01
```

All partitions by default are usually assigned to the proximity reader PROX8. All events related to all partitions are shown on proximity reader's LED. If there is a need to monitor only one of all enabled partitions, then assign this particular partition to the proximity reader. Use [ENT] to enter the menu, then press the [#] key to assign a partition to the keypad. Save changes by pressing the [ENT] key.

```
◂Sound        ▸
  No
```

The proximity reader has a buzzer for audible notifications wich can be enabled or disabled.

```
◂HideStatusIndi▸
  No
```

The proximity reader can be programmed to indicate the present status of the system on LED for a short period of time when the tag is near a sensitive area of the module or it can indicate the status continuously.

```
◂Unknown tag  ▸
  No Action
```

The proximity reader has 3 options on what it must do when the unknown proximity tag is detected:

- *No action*
- *Indication* - module starts blinking red and starts emitting an annoying noise.
- *Indicat.&Alarm* - module starts blinking red and starts emitting an annoying noise. The alarm siren will be triggered after 3 attempts to control the system with an unknown tag.

◂Operation mode ▸
Small System

The meaning of LED indication depends on module operation mode:

- *Small System* (up to 3 partitions) - this operation mode is useful when the system has 1 or 2 partitions enabled.
  - ◇ 1st and 2nd module LED indicates the arming mode in 1st and 2nd partitions respectively;
  - ◇ 3rd LED indicates system troubles;
  - ◇ 4th LED indicates an alarm, an alarm memory, not ready status (open zones), and zone bypass.

If the system has 3 partitions enabled, then the 3rd LED will indicate the arming mode of the 3rd partition. Troubles will be indicated on the 4th LED. Color meaning:

- ◇ Red color - Alarm;
- ◇ Red slowly blinking - Alarm memory;
- ◇ Green color - Not Ready;
- ◇ Yellow color - Trouble;
- ◇ Blue color - Bypassed Zone.

- *Large System* (4 partitions) - each partition is assigned to the different module's LED. Module LED indicates all information (arming mode, alarm, alarm memory, troubles, and zone bypass).

ZONE PROGRAMMING

Zones, in the context of an alarm system, are individual detectors. If the alarm gets triggered, the system records the zones that were tripped, allowing the user to know the exact point of action. Zones also help the monitoring station to know whether they should call the police or fire department upon an alarm. Each zone must be assigned to a partition.

Service Mode ▸ System Setup ▸ Zones

Z01◂Name ▸
Entry Door

It is recommended to give an appropriate name to the zone. This name will be used by the system for SMS sending or for display on keypad's LCD screen and etc.

Z01◂Address ▸
00_1

Z01◂Address ▸
00_1 A

Z01◂Address ▸
00_1 B

Zone address is a 3-digit number represented in *MA_Z* format, where *MA* specifies a module address in the system and *Z* specifies a zone terminal in the module board. Example: *00_1 - where* 00 means the control panel and 1 means the zone terminal Z1. To program a doubled zone - A and B detectors must be specified. Use keypad keys [A] or [B] to specify theses detectors in zone address field (example: 00_1 A, 00_1 B, ...).
Note: use loop types *NO/DEOL* or *NC/DEOL* for the doubled zones.
For wireless zones MA_1 – MA_8 the system will automatically assign *NO/DEOL* loop type and for wireless zones MA_9 – MA_16 the *Vibration* loop type. Do not change the loop type of zone!
Wireless module address:

- EXT116S - address **06** (default) or one that is given during the registration process.

Virtual wireless module EXT116S address:

- P16 - address **12**;
- P32 - address **12** and **13**.

Z01◂Loop Type ▸
NC/DEOL

The *Loop type* menu enables you to program the connection type used for each of the system's zones. The actual (physical) loop type for each zone must comply with that selected in the *Loop type* menu. Available loop types:

- *Not used*
- *NC* - uses normally closed contacts and no end of line resistor;
- *NO* - uses normally open contacts and no end of line resistor;
- *NC/EOL* - uses normally closed (NC) contacts in a zone terminated by a 1k end of line resistor;
- *NO/EOL* - uses normally open (NO) contacts in a zone terminated by a 1k end of line resistor;
- *NC/DEOL* - uses normally closed (NC) contacts in a zone using at least two 1k end of line resistors to distinguish between alarms and tamper conditions;
- *NO/DEOL* - uses normally open (NO) contacts in a zone using at least two 1k end of line resistors to distinguish between alarms and tamper conditions;
- *Vibration* - special purpose zone loop type;
- *Roller* - special purpose zone loop type;

Z01◂Partition ▸
1

Each zone must be assigned to a partition. All zones are assigned to the 1st partition by default.

Z01◂Definition ▸
Entry/Exit

Setting the zone definition is partly determined by the arming mode:

- *Entry/Exit* - used for Entry/Exit doors. A zone must be closed during arming and when the delay expires. Entry delay will be available when the system is armed in *Away* or *Stay* mode.
- *Interior* - usually assigned to motion detectors and to interior doors. Violation of this zone will not trigger an alarm when the system is armed in *Night* or *Stay* mode.
- *Perimeter* or *Instant* - usually intended for non-exit/entry doors, window protection, shock detection, and motion detectors. A zone goes immediately into an alarm state when violated while armed.
- *24h Burglary* - a violation of such a zone causes an instant intrusion alarm, regardless of the system's state.
- *24h Panic Silent* - used for external panic buttons. If violated, an immediate panic alarm is triggered, with the exception that there is no audible indication of the violation.
- *24h Panic Audible* - same as *Panic Silent*, except that the alarm will be audible.
- *24h Tamper* - the tamper function is continuously operational. When a *24h tamper* zone is activated, a tamper alarm is generated.
- *24h Fire* or *24h Smoke* - for smoke or other types of fire detectors. To avoid false alarms, zone attribute *Fire Verification* is recommended to use.
- *24h Fire button* - for external auxiliary emergency alert buttons. If violated, an immediate fire alarm will sound, regardless of the system's state.
- *24h Medical button* - for external auxiliary emergency alert buttons. If violated, an immediate medical alarm will sound, regardless of the system's state.

- *24h Fire supervisory*, *24h Low Water Level*, *24h RF Jam*, *24h Gas Detected*, *24h Water leakage*, *24h High Temperature, 24h Low Temperature* - this group of definitions is used for the 24h technical zones to report about abnormalities in the environment.
- *Control* - zone is mostly used to arm/disarm the system (*Key-switch* zone). Momentary and maintained key-switch arming are available. This definition can also be used to turn On / Off the PGM output. Violation of this zone will not trigger an alarm, regardless of the system's state.
- *Follower* - usually assigned to motion detectors and to interior doors protecting the area between entry door and the keypad. This zone(s) causes an immediate intrusion alarm when violated unless an *Entry/Exit* zone was violated first. Violation of this zone will not trigger an alarm when the system is armed in *Night* or *Stay* mode.
- *Follower Night Armed* - this zone is the same as the *Follower* zone, but violation of this zone will not trigger an alarm when the system is armed in *Stay* mode.
- *Interior Night Armed* - this zone is the same as the *Interior* zone, but violation of this zone will not trigger an alarm when the system is armed in *Stay* mode.
- *Entry/Exit Forced* - same as *Entry/Exit* zone but unlike a regular entry/exit zone this zone can be violated before the arming.

Z01◂Zone Speed ▸ 0,4 seconds	The loop speed menu enables you to set the different times for which a zone violation must exist before the zone will trigger an alarm condition. Normally zone speed is within 0,1 - 2,5 seconds range. With *Vibration* zone loop type selected, the zone speed must be within 0,01 - 0,25 seconds range (fast zone). This zone loop speed time can be defined only for zones located on the control panel. **Note:** if wireless detectors are in use, this field also specifies how often the system checks for supervision signals, identifying each of the system's wireless detectors. The system generates a local trouble signal identifying the zone of any wireless detectors from which a signal is not received during the specified interval. Control panel then sends the supervision report code to the CMS. ◆ *0,0 seconds* - supervision is disabled; ◆ *0,1 seconds* - 1h supervision window; ◆ *0,2 seconds* - 2h supervision window; ... ◆ *2,4 seconds* - 24h supervision window; ◆ *2,5 seconds* - 25h supervision window; **Note:** it is recommended to set the supervision time to a minimum of 2 hours if SECOLINK detectors are in use.
Z01 Attributes ◂+Limit report ▸	By default, the system is set to make a zone shutdown when 3 or 7 (use MASCAD to change this number) violations of zone are detected. This parameter specifies number of violations of the same zone reported to central monitoring station during a single armed period, before the zone is automatically shutdown.
Z01 Attributes ◂-Limit alarms ▸	Repeated violation of the same zone, often resulting in a false alarm and usually arising due to a malfunction, an environmental problem, or incorrect installation of a detector or sensor. By default, the system is set to make a zone shutdown when 3 or 7 (use MASCAD to change this number) violations of the zone are detected. This parameter specifies number of violations of the same zone (triggered the siren, keypad buzzer, and etc.), during a single armed period before the zone is automatically shutdown.
Z01 Attributes ◂-Fire Verific ▸	Implemented on detection of smoke or fire for verification. Power to the smoke detector(s) in the affected zone is cut off and restored. If a subsequent detection occurs in the same zone within the predefined time of the first detection, the system emits a fire alarm. It's recommended to use +PGM as fire detector power supply.
Z01 Attributes ◂-In Exit Rout ▸	With this attribute being set - a zone with *Interior* definition can be violated during an exit delay.
Z01 Attributes ◂-In Entry Rou ▸	With this attribute being set - a zone with *Interior* definition can be violated during an entry delay.
Z01 Attributes ◂-Arm on Exit ▸	This attribute is only used for *Entry/Exit* or *Entry/Exit Forced*. With this attribute being set - the system will finish an exit delay countdown and will arm the system immediately after the entrance door will close.
Z01 Attributes ◂-No alarm ▸	Used for *24h High temperature* or *24h Low temperature*. A zone with this attribute will not trigger an alarm, but can start PGM action.
Z01 Attributes ◂+Bypass Enabl ▸	This attribute permits zone bypassing by authorized system users. If *No* is displayed as an option, then the zone cannot be manually bypassed.
Z01◂Entry Delay ▸ 30 seconds	Used for *Entry/Exit* or *Entry/Exit Forced* zones. Entry delay time is programmable within 1 - 255 seconds range.
Z01◂Pre-alarm ▸ No	Used for perimeter protection. When special arming mode *Pre-alarm* is turned on and the pre-alarm zone is violated, the system will make an alarm without reporting to central monitoring station or to the user.
Z01◂WL loop ID ▸ Type 201	Enter wireless detector loop (zone) ID number and press the [ENT] key to start enrolling. There is a 30-second time-out for enrolling. Also use this field for deleting the detector from the module. The table with available wireless detector loop (zone) ID numbers can be find in the wireless detector manual.

PGM PROGRAMMING

The control panel has three built-in programmable trigger outputs (+BELL, -PGM, +PGM). The system with PAS808M allows up to 8 programmable outputs and bigger systems up to 16 .

Service Mode ▸ System Setup ▸ PGM outputs

```
O01◂Name       ▸
Siren +PWR
```

It is recommended to give an appropriate name to the PGM. This name will be used by the system for SMS sending or for display on keypad's LCD screen and etc.

```
O01◂Address    ▸
 00_1
```

PGM output address is a 3-digit number represented in *MA_P* format, where *MA* specifies a module address in the system and *P* specifies a PGM output terminal in the module board. Example: *00_1* - where 00 means the control panel and *1* is the +BELL output. PGM output addresses on modules:

- *Control panel:*
  - *+BELL - 00_1;*
  - *-PGM - 00_2;*
  - *+PGM - 00_3.*
- *KM24 / KM24A / KM24G:*
  - *Z2/PGM - MA_1.*
- *EXM800*
  - *Z8/K1 - MA_1;*
  - *Z7/K2 - MA_2;*
  - *...*
  - *Z2/K7 - MA_7.*
- *RCM800WL:*
  - *K1 - MA_1;*
  - *K2 - MA_2;*
  - *OC1 - MA_3;*
  - *OC2 - MA_4.*
- *PWR20:*
  - *+BELL - MA_1;*
  - *-PGM - MA_2.*
- *EXT116S:*
  - *Relay - MA_1.*

```
O01◂Definition ▸
 Fire/BurgAlarm
```

PGM output Definition describes what kind of system activity will activate the output. DON'T FORGET to assign zones, partitions and etc. to PGM'S output triggering source, otherwise the PGM will not work correctly.

- *Not used* - unused PGM output should be programmed as *Not Used*.
- *Fire Alarm* - output activates if an alarm occurs on the selected zone or module (emergency keys).
- *Fire/BurgAlarm* - output activates if fire or burglary alarm occurs on the selected zone or module (emergency keys). **Note:** output also activates when zone or module tamper conditions are present (when the system is armed).
- *Burglary Alarm* - output activates if burglary alarm occurs on the selected zone or module (emergency keys). **Note:** output also activates when zone or module tamper conditions are present (when the system is armed).
- *Tamper Alarm* - output activates if tamper alarm occurs on the selected zone or module.
- *Technical Alarm* - output activates if technical alarm occurs on the selected technical zone.
- *Selected Alarms* - output activates if a selected type of alarm occurs on the selected partition.
- *Chime* -output activates if the selected zone is violated (when the system is disarmed).
- *Zone Violation* - output activates if the selected zone is violated. If *Pulse length* is 0 seconds, then the output is activated until any of the selected zones remain violated.
- *Bypass Status* - output activates when a zone is bypassed and deactivates when the zone is reinstated.
- *System Trouble* - output activates if any selected trouble is present.
- *EntrExitWarning* - output activates if an entry/exit delay is in progress in the selected partition.
- *Exit/ArmStatus* - output activates during an exit delay and if selected partition is armed it will remain active after the exit delay expires.
- *Full Arm Status* -output activates if all of the selected partitions are armed.
- *Notifications* - output activates if the selected partition is being armed (1 pulse) or it is being disarmed (2 pulses). In case of an unsuccessful arming - the output activates for 5 pulses. After alarm clearing this output can also be activated for a specific period of time.
- *Power Supply* - output can be used as a power supply for external devices.
- *Resettable Power Supply* - output can be used as a power supply for external devices. It can be switched off for a specific period of time from the keypad.
- *Fire Power Supply* - output can be used as power supply for fire or smoke detectors. When the system requires a reset for these detectors the output will be switched off for a specific amount of time. This output will be switched off each time after system arming and alarm clearing. This output can also be switched off from the menu.
- *Timer* - output activates when a selected timer activates and it deactivates when a selected timer deactivates (program the system timers in the menu: *Main menu ▸ Settings ▸ Timers).*
- *Mono/Bi Switch* - output activates if the selected zone is violated or manually triggered from the keypad. If the *Pulse length* time is set to 0 seconds, then the output is active until the next signal from the zone or from the keypad appears.

O01◂Attributes ▸ +InversionOfS	If selected, the output signal is inverted. This is useful when using self-activating alarm sirens.
O01◂Attributes ▸ +ArmFailNotif	If selected, the alarm siren will ding five times when the arming has failed (for example: perimeter zone was violated or trouble appeared during exit delay).
O01◂Attributes ▸ -Prealarm	If selected, the output activates when zone with an attribute *Pre-alarm* is violated (special arming mode *Pre-alarm* must be turned on).
O01◂Attributes ▸ +Latch	When triggered, output activates and remains activated (latched) until a valid user code is entered or is cleared from the menu (depends on the definition).
O01◂Attributes ▸ +Pulse	With this attribute being set the output will generate a pulsing DC voltage (1 Hz frequency). If PGM definition is *Fire alarm*, *Fire/Burglary alarm*, or *Selected alarms* (*Fire alarm*), then fire alarms will only generate pulsed output signals.
O01◂PulseLenght ▸ 5 minutes	Pulse length determines how long PGM will be activated. The range is between 1 second and 255 minutes.
O01◂TrigSource1 ▸ +Zones 01 O01◂TrigSource2 ▸ +Modules 00	Different PGM output definition requires different triggering sources. Press [ENT] to enter the menu, then press the [#] key to assign a system element (zone, partition and etc.) to the PGM output. Save changes by pressing [ENT].

PSTN DIALER SETTINGS

The *PSTN communicator* menu contains parameters that enable the routing of specified events of up to four Central Monitoring Station (CMS) receivers or users (for the systems with PAS808M). The system automatically generates all reporting codes using the *Contact ID* format.

Service Mode ▸ Report settings ▸ PSTN communicator

◂Reporting ▸ Disabled	This menu allows to enable/ disable reporting to CMS or to the user via the PSTN line.
◂Tel. Number 1 ▸ 845345464 ◂Tel. Number 2 ▸ p845345464	Program the phone numbers as required. Use the [#] key to enter additional symbols: *p* - 3 sec. pause, *P* - 10 sec. pause, *w* - wait dial tone. **Note:** control panel will call the user when additional symbol "p" is entered in front of phone number (for systems with PAS808M). User must acknowledge the call by pressing the [*] key on the phone, otherwise the control panel will call again.
◂Account Number ▸ 0000	Program the *Account number*. This account number will be used for all reporting events. Use the [#] key to enter additional hex symbols: *B*, *C*, *D*, *E*, *F* .
◂DialsInSession ▸ 4	Value programmed in this parameter determines how many times the control panel will re-dial all numbers before proceeding to the next session.
◂Sessions ▸ 3	Value programmed in this parameter determines how many dialing sessions the system will run in case of an unsuccessful attempt to deliver the report to CMS.
◂PauseBTWsessio ▸ 1 minutes	This parameter determines the pause between the dialing sessions.
◂DialTone Test ▸ No	The system dials only if a dial tone is detected.
◂Method ▸ Tone	Use *Tone* for the touchtone (DTMF) dialing or *Pulse* for the rotary (pulse) dialing. **Note:** PAS808M uses *Tone* dialing only.
◂LineMonitoring ▸ No	If selected, then the control panel continuously checks the presence of the telephone line voltage.
◂LineLossDelay ▸ 1 minutes	The control panel indicates telephone line tampering if the telephone line voltage is absent for a longer time than it is set in this parameter.

SERIAL INTERFACE SETTINGS

The *SERIAL interface* menu is used to enable reporting to the device which is connected to the SERIAL port.

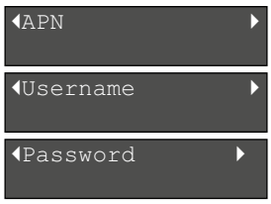
Service Mode ▸ Report settings ▸ SERIAL Interface

◂Reporting ▸ Disabled	This menu allows to enable /disable reporting to the device which is connected to the SERIAL port. Control panel uses protocol *7 byte slow* by default. Use software MASCAD to change the protocol to *9600 Baud Serial*.
◂Account Number ▸ 0000	Program the *Account number*. This account number will be used for all reporting events. Use the [#] key to enter additional hex symbols: *B*, *C*, *D*, *E*, *F* .

GPRS SETTINGS

The *GPRS settings* menu contains parameters that enable the connection to network. Use MASCAD to program the other settings.

Service Mode ▸ Report settings ▸ GPRS settings



APN is the name of a gateway between a GPRS mobile network and another computer network, frequently the public Internet. A GSM/GPRS module making a data connection must be configured with an APN to present to the network provider. Contact your provider to verify the correct APN settings.

LAN SETTINGS

The *LAN settings* menu contains parameters that enable the connection to network. Use MASCAD to program the other settings.

Service Mode ▸ Report settings ▸ LAN settings

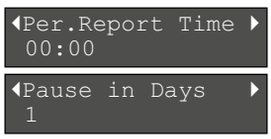
By default, the LAN module is set to obtain IP automatically, which should be kept only if your ISP supports DHCP or you are connecting through a dynamic IP address. If you are required to use a permanent IP address to connect to the Internet, select *No*. In this case all IP settings must be manually entered.

- *IP address* - enter IP address of the module in the network.
- *Subnet mask* - enter a mask of the subnet in which the module works.
- *Gateway* - the default gateway provides a default route for TCP/IP hosts to use when communicating with other hosts on remote networks.
- *DNS server 1 & 2* - DNS technology allows you to type names into receivers No.1 or No.2 address fields (www.alarmserver.net) and the LAN module will automatically find that IP address on the internet.

PERIODIC TEST SETTINGS

The *Time Settings* menu contains parameters that enable the routing of periodic test event to CMS receivers.

Service Mode ▸ Report settings ▸ Time settings



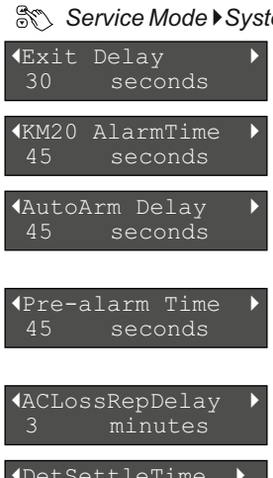
Set the test time and hourly/daily interval for periodic test reporting.

- Daily reporting - use the keypad's numeric keys [0] to [9] to type in the time of the day (in 24-hour format) for periodic test reports to be sent. Use the list below to specify the daily testing intervals:
  - *0* - daily reporting is disabled
  - *1* - Every day;
  - *2* - Every other day;
  - ...
  - *30 Every 30th day;*
  - *31 Every 31th day.*

SYSTEM TIMES SETTINGS

The S*ystem Time Settings* menu contains parameters that specify the duration of an action.

Service Mode ▸ System Setup ▸ Time Settings



This menu is only used for the systems with control panel PAS808M. The programmed exit delay will be applied for all enabled partitions.

The buzzer (or loudspeaker) housed inside the keypad emits (annunciates) sounds in case of alarm. The duration of alarm sound is programmable within a 1 - 255 seconds range.

Used for all partitions. An audible *Auto Arm Delay* (warning) countdown will commence prior the automatic arming. User, that has a right to stop auto arming, can enter a valid PIN code at any time during the countdown to stop auto arming.

This time is related to special arming mode *Pre-alarm*. When a pre-alarm zone is violated, the system will trigger the siren and a keypad buzzer (loudspeaker). The duration of pre-alarm is programmable within a 1 - 255 seconds range.

In case of AC power loss, this parameter specifies the delay period before reporting the event.

Implemented on detection of smoke or fire for verification. When smoke or fire zone is violated, the system will reset these detectors, then wait for detectors to settle. Detector's settling time is programmable within a 1 - 255 seconds range.

◂FZoneVerifTime ▸ 15 seconds	Implemented on detection of smoke or fire for verification. When smoke or fire zone is violated, the system will reset these detectors, then wait for detectors to settle. If a subsequent detection occurs in the same zone within the time that is programmed in *Fire Verification Time*, the system will emit a fire alarm.
◂Immid.EntryAla ▸ No	Event reports from entry zones to the CMS are delayed for 30 seconds after they are detected. Select *Yes* if the event report should be sent immediately.

USER PROGRAMMING

Each installation typically accommodates unique user PIN codes of up to 4 digits. The *Edit Users* menu provides access to submenus and their related parameters that enable you to maintain user PIN codes in the system. The first user's PIN code is used by the system's owner or chief user. This user has access to all the menus (except *Service mode*) and it can't be disabled.

Main menu ▸ Settings ▸ Users ▸ Edit Users

U01◂Name ▸ User 01	It is recommended to give an appropriate name to a user. The system will use it to send SMS or for display on keypad's LCD screen.
U01◂Status ▸ Enabled	All Users that have status mode *Enabled* can control system or its partitions.
U01◂Partitions ▸ +Partition 01	The *Partitions* menu enables you to assign the partition(s) in which the user (except for the 1st system user) will operate.
U01◂Timers ▸ -Timer 01	Used to allow users to control the system during predefined time periods. **Note:** if the timer is not assigned, the user will be able to control the system without time limitation.
U01◂Reset PIN ▸ No	This options allows to restore current user PIN to default. Factory default user PIN depends on user's number in the system: U01 default PIN - 0001, U02 default PIN - 0002, U31 default PIN - 0031.
U01◂Controls ▸ New RCU	This menu entry is used to assign the remote control (RCU) or proximity tag to the system user. To assign the RCU or tag - choose the corresponding menu and press the [ENT] key to program: ◆ HC3S - simultaneosly hold down all buttons. ◆ LT5 - simultaneosly hold down the buttons [A] and [D]. ◆ Proximity tag - put the tag on sensitive area of the proximity reader. Removing of the control unit can be done in the same menu. Message *Done* should appear on keypad's LCD when *all* control units are removed from the user.
U01◂Rights ▸ +Arm	All system users have all rights assigned by default. However, it is possible to change them. The user has access to the following: ◆ *Arm*; ◆ *Disarm*; ◆ *Clear alarm*; ◆ *Abort arming*; ◆ *Bypass zones*; ◆ *Edit settings*; ◆ *View Event log*; ◆ *Test fire zones*; ◆ *Send test report*; ◆ *Control PGM outputs*; ◆ *Edit system users*; ◆ *Right to enable service*;

SYSTEM TIMERS PROGRAMMING

System timers consist of an ON time and an OFF time, and selected days of the week in which they are active. There are up to 16 timers (depends on control panel type) that can be used to make auto arming schedule or to control various devices, such as lights or appliances.

Main menu ▸ Settings ▸ Timers

T01◂Name ▸ Timer 01	It is recommended to give an appropriate name to a timer.
T01◂TMR On Time ▸ 23:00 Enabled	Timer is in use when it is enabled. Use the 24-hour clock to program the timer On/Off time .
T01◂TMR Off Time ▸ 00:00 Disabled	
T01◂Schedule ▸ -----++	Select the days when the system timer will activate. Use the [ENT] key to enter to the menu, then press [#] to assign day to the timer. Save changes by pressing the [ENT] key.

SECURITY SETTINGS

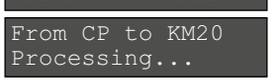
Service Mode ▸ System Setup ▸ Security Settings

◂PIN Resetting ▸ Disabled	This setting allows to enable or to disable access to the special user menu, where installer with his PIN can restore 1st user's PIN to default and the 1st user with his PIN can restore all enabled user PINs to default.
◂Duress ▸ Disabled	This feature is intended for situations where the user is forced to disarm or arm the system under a threat. This setting enables or disables this feature. Duress code is individual for every system user. Duress code = X1, X2, X3, X4 when X4 = X4 + 1 (X1, X2, X3, X4 are digits). Example: user PIN is 123**4**, duress code will be 123**5**.

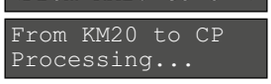
PROJECT LOADING

Service Mode ▸ Project Loading

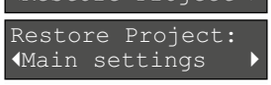
If entered the keypad initiates a communications session with the PC. Software MASCAD is used to program SECOLINK intruder alarm system. **Note:** it is necessary to register modules to the system, if a new module was added to the project by using MASCAD software. After module registration the data from the keypad should be sent to the system.

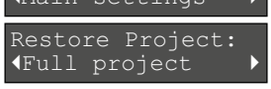


If entered the control panel will start uploading the project to all registered system modules.



If entered the keypad will start uploading the project to control panel and all registered system modules.





Two sub-menus are available:

- *Main settings* - restores all settings, excluding entered names and reporting settings.
- *Full project* - restores all settings to factory default values.

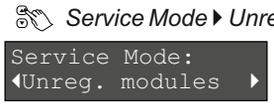
LANGUAGE

Service Mode ▸ Set Language

Usually the keypad is supplied with 3 languages.

UNREGISTER MODULES

Service Mode ▸ Unreg. Modules



Used to unregister system modules. The message *First Start Press [ENT]* will appear on keypad's LCD screen when this procedure will end.

SERVICE MODE MENU TREE