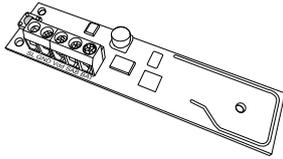


# SECOLink<sup>®</sup>

## INTRUDER ALARM SYSTEM



### BS100

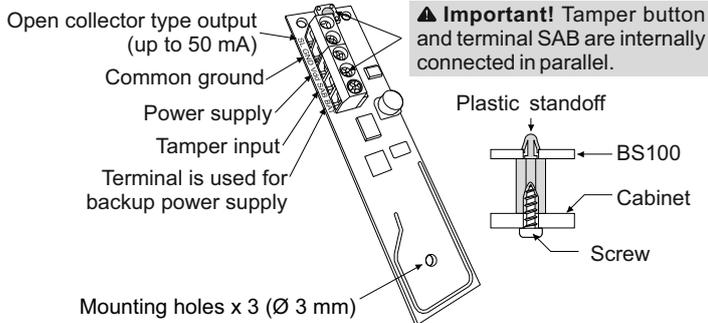
#### WIRELESS PGM OUTPUT

### INSTALLATION INSTRUCTION

#### 1. INFORMATION

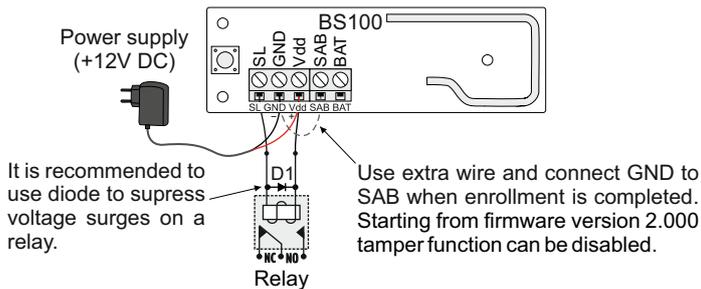
BS100 – wireless PGM output with an open collector type output intended to trigger a siren or relay, control gates and etc. Wireless output operates within the SECOLINK intruder alarm system, by connecting via the two-way, encrypted protocol to the receiver. The communication range is up to 100 meters in the premises. In addition, the wireless PGM output can be used as part of third-party security system unit due to the EXT11 module integration.

#### 2. PGM OUTPUT



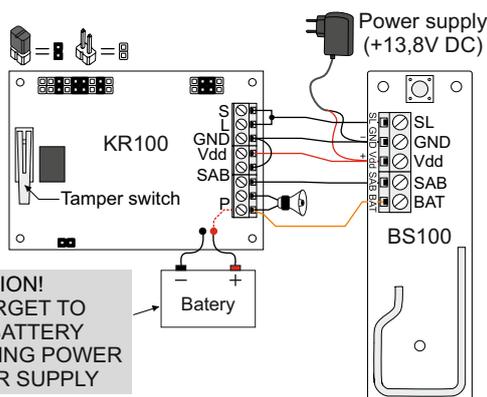
#### 3. APPLICATIONS

Connecting a relay:



Connecting a siren KR100:

Power supply must be suitable for the siren (+13,8V DC). All jumpers should be put in positions that allows to trigger the siren by applying ground (“minus”).



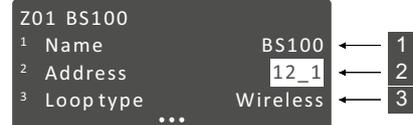
### 4. PROGRAMMING

Get into service mode (default PIN codes: first user – 0001, service – 0000):

🔑 Main menu ▶ Service Mode ▶ System Setup ▶ Zones

#### 4.1. SETTING UP ADDRESS OF THE ZONE

1. Press [7] or [★] for a next zone.
2. Give an appropriate name to the zone **1**.
3. Enter the correct zone address in MA\_Z format **2**, where MA is a module address in the system and Z is a zone number in the module.
4. Enable zone using loop type *Wireless* **3**



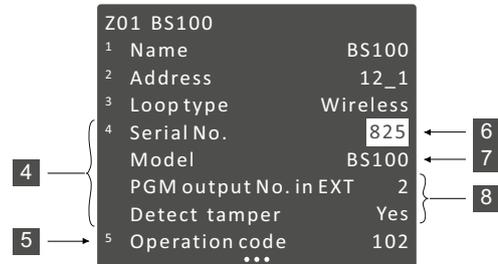
Default module address:

- ♦ P16-EXT116VM – 12
- ♦ P32-EXT116VM – 12 and 13
- ♦ P64-EXT116VM – 12, 13, 14 and 15

#### 4.2. ENROLMENT

Wireless PGM outputs, starting from firmware version 2.000, can be enrolled in two ways:

- ♦ by entering serial number and setting up other related settings **4**;
- ♦ by entering the *Operation code* **5**.



🔑 **TIP!** When enrolling, the BS100 must be within range of the receiver. However, it's still good practice to bring the BS100 as close to the panel as possible during enrollment.

#### 4.2.1 ENROLMENT USING SERIAL NUMBER

Enrolment using serial number is a two step process:

- ♦ **1step.** Enter BS100 serial number **6**. The keypad will identify the device type **7** and will show all other related settings that are required for enrolment **8**.
- ♦ **2step.** SERVICE MODE DOES NOT HAVE TO BE ENTERED AT THIS STEP! To complete enrolment, the BS100 must be activated to send a signal to the receiver. It could be done by pressing the tamper button.

When wireless device is not enrolled all its zones are marked with a phrase *Not activ.* **9** in menu *Wireless communication*.

🔑 ⓘ ▶ Technical information ▶ Wireless communication

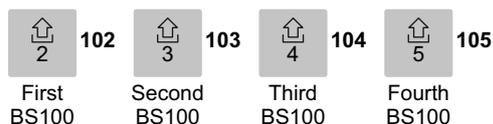


When the device is successfully enrolled, the mode *LR* or *ES* will be displayed next to its all zones **10**. Phrase *No SN.* will be displayed when wireless zone is enabled, but serial number of the device is not entered **11**. Phrase *only LR* **12** will be displayed when the device supports only the *LR* mode.

#### 4.2.2 ENROLMENT USING OPERATION CODE

Enter the corresponding *Operation code* **5** and press the [ENT] key. When enrolment has started, immediately press the tamper button for a short period of time (~1 sec).

Operation codes:



The same **Operation code** <sup>5</sup> field is used to delete the particular BS100 or all BS100 from the particular module (module supports 4 x BS100):



### 4.3. SUPERVISORY WINDOW

The wireless device periodically sends a supervision signal to a receiver. If the system does not receive supervision (or alarm signal) signal from a specific device, the device is regarded as inactive. The amount of time after which a device is considered inactive is called the **Supervisory window** <sup>13</sup>.



Supervisory window and periodic supervision signal sending are directly related to selected security grade <sup>14</sup> in the system (see Table 1).

🔑 *Main menu* ▶ *Service Mode* ▶ *System Setup* ▶ *Wireless Subsystem*



Table 1. Security grade

Name	Periodic supervision signal	Supervisory window
Grade 1	every 1h	1h
Custom	every 1h	0 - 24h (0 = disabled)
Grade 2	every 20 min	20 min

## 5. COMMUNICATION MODE SELECTION

Wireless devices, starting from version 2.000 support new communication mode, that can be selected in menu **Mode** <sup>15</sup>:

🔑 *Service mode* ▶ *System setup* ▶ *Wireless Subsystem*



Table 2. Mode comparison

Mode	Distance	Battery life	Application
LR	●●●●●	●●●○	<ul style="list-style-type: none"> <li>harsh environment for a signal to travel (ex. concrete walls and ceilings);</li> <li>long range;</li> <li>less than 32 wireless devices in the system.</li> </ul>
ES	●●●●○	●●●●●	<ul style="list-style-type: none"> <li>suitable environment for a radio signal to travel (ex. wooden walls);</li> <li>middle range;</li> <li>more than 32 wl. devices in the system;</li> </ul>

The conflict can occur when the mode **ES** <sup>15</sup> is chosen in the system with the older wireless devices that supports only the **LR** mode. The new setting will not be applicable and an error will be displayed on screen upon changing the mode, on main screen, in the corresponding user (LT5), wireless zone or module editing menu. All errors will be displayed until all older wireless devices will be replaced (upgraded) OR when **Mode** <sup>15</sup> will be changed back to the **LR**.

## 6. SETTING UP ADDRESS OF THE PGM OUTPUT

🔑 *Service mode* ▶ *System Setup* ▶ *PGM outputs*

- Press [7] or [\*] for a next PGM output.
- Give an appropriate name to an output <sup>16</sup>.
- Enable PGM output by changing the **Definition** <sup>17</sup> from **Not Used** to any other depending on a specific of use.
- Enter a wireless PGM output address in **MA\_P** format <sup>18</sup>, where **MA** specifies a EXT116S or EXT116VM address in the system (where BS100 is enrolled) and **P** specifies the number which was entered in a field **PGM output No. in EXT** <sup>8</sup> OR it is the LAST digit of the **Operation code** which was used for enrolling <sup>5</sup> (see the wireless PGM addressing examples in Table 3).



5. All other PGM output settings are programmed like usual.

Table 3. Examples of PGM address

Zone address (BS100)	PGM output No. in EXT	Operation code	PGM address that needs to be entered...
06_1	2	1 0 2	06_2
06_8	3	1 0 3	06_3
12_5	4	1 0 4	12_4
13_1	5	1 0 5	13_5

## 6. SUMMARY

Compatibility	<ul style="list-style-type: none"> <li>EXT116VM (panels P16, P32, P64),</li> <li>EXT116S (system module),</li> <li>EXT11 (receiver for 3rd party systems)</li> </ul>
Communication	Dual way, encrypted
Type	Wireless
Uses	Indoor
Output type	Open collector type (makes „minus“)
Maximum load	50 mA / 12V DC
Tamper input	Yes (enabled by default)
Operating frequency	868,30 or 915,30 MHz depending on the country of distribution
Periodic supervision signal	20 min or 1h
Supervisory window	<ul style="list-style-type: none"> <li>1h (Grade 1),</li> <li>20min (Grade 2),</li> <li>0 - 24h (Custom)</li> </ul>
Communication range in building	up to 100 m
Power supply (Vdd)	+12V DC ± 15% (msg.: "low voltage" < 10V)
Current consumption (without load)	<ul style="list-style-type: none"> <li>standby: ~13mA,</li> <li>communication: ~25mA</li> </ul>
Operating humidity	up to 70%
Operating temperature	from -10 up to +55°C
Overall dimensions	92 x 22 x 18 mm

## SYSTEM COMPLIANCE & WARRANTY

Kodinis Raktas UAB, manufacturer of SECOLINK Intruder Alarm System, offers a Warranty for a term of twenty-four months. It declares, that product complies with essential EU directives and EU standards EN 50131-1, Grade 1, Environmental Class II; EN 50131-2-2. For more information visit manufacturer's website [www.kodinis.lt](http://www.kodinis.lt) or [www.secolink.eu](http://www.secolink.eu) for a complete text of declaration. SECOLINK Intruder Alarm System is designed and manufactured in Lithuania.

The warranty is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Kodinis Raktas UAB (hereunder the "Kodinis Raktas") or from its authorized distributor. During the warranty period, manufacturer shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Repaired products shall be warranted for the remainder of the original warranty period. The Purchaser assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from Kodinis Raktas or from its authorized distributor. To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Kodinis Raktas for repair or replacement shall be borne solely by the Purchaser. Kodinis Raktas warranty under this warranty does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Kodinis Raktas; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Kodinis Raktas did not provide; (d) failure caused by software or hardware which Kodinis Raktas did not provide; (e) use or storage other than in accordance with Kodinis Raktas specified operating and storage instructions; (f) to consumable parts, such as batteries or coatings that are designed to diminish over time. There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereof. This limited warranty is the Purchaser's sole and exclusive remedy against Kodinis Raktas and Kodinis Raktas sole and exclusive liability toward the Purchaser in connection with the products, including without limitation – for defects or malfunctions of the products. This warranty replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise. In no case shall Kodinis Raktas be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Kodinis Raktas or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Kodinis Raktas does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection. Purchaser understands that a properly installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result. Consequently, Kodinis Raktas shall have no liability for any personal injury; property damage or any other loss based on claim that these products failed to give any warning. If Kodinis Raktas is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Kodinis Raktas maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Kodinis Raktas.

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