



This guide is intended for WL-2 and WL-1B users who do not wish to program the unit after purchase and who already know their application settings prior to purchase eg. home user who need to monitor various contacts from doors or alarms and the ability to control lights using a standard mobile phone. (If you do not need the unit pre-programmed before delivery, then you can skip to page 2)

*To pre-program the unit, all you need to do is complete a simple document for your application specifying your preferred SMS text messages that need to be received in the event of any alarms and the SMS text messages that need to be sent when you want to control appliances. Then email the completed document to us and we will program the unit for you before shipping. It could not be simpler !*

## Before you receive the unit

1. If you already know your application in terms of what you need to monitor and control, then you must first download and unzip from [www.watchlinkgsm.com/support](http://www.watchlinkgsm.com/support) the following documents ; *WL-2 program.doc* (WL-2 unit) or *WL-1B program.doc* (WL-1B unit). These documents can be found under the *WL-program.zip* file. You can use these documents to specify your own user configuration prior to shipping or to request from us a download file(.par) to program your unit using the Configurator software.
2. For your application, fill in the necessary blanks under SMS text headings. For SMS Alarms, if you are using Digital Input IN1 as input from auxiliary contacts on your burglar alarm, then fill in *Alarm ON* under -SMS text ON- header(IN1) and *Alarm OFF* under -SMS text OFF-header(IN1). In this way, you will receive SMS text message on your mobile phone as *Alarm ON* when your burglar alarm is activated(closed contact) and when the alarm is deactivated you receive SMS text message as *Alarm OFF*. These text messages also contain the Identity (ID) of the unit.
3. Continue to fill in the blank boxes for other inputs as needed including analogue inputs if used. For analogue inputs, you will receive the specified SMS text message when the analogue values are outside the defined upper/lower limits. When you request the status of Inputs, you receive the text messages as specified for alarms in 2,3 above.
4. You also must fill in the SMS text message you will receive when you activate the outputs or request the outputs status. For example, *Light ON* text message is received by the user when OUT1 is switched ON.
5. To control the outputs, you must fill in the SMS text boxes in the Command/Outputs section. These text messages are sent by the user to switch ON/OFF/PULSE the appropriate outputs. For example, *Ion* command could be sent to switch ON a light attached to OUT1.
6. The General commands can be left at the default values or you can specify New commands.
7. You also must specify an *Identity* (ID) for the unit. Please specify this on top of first page and limit the characters to less than 6 characters and in lower case. You do not need to specify a password now as sending the *pas* command when you get the unit will enable you to specify your own password if needed for added security.
8. When you have filled in all the necessary blanks for your particular application, please email it to ; [info@watchlinkgsm.com](mailto:info@watchlinkgsm.com) and we will program the unit accordingly before shipping.



## After you receive the unit

1. Upon delivery of your unit, you must install your own SIM card from your preferred GSM network operator. Please remember to keep your PIN number for future use. PrePaid SIM cards are sufficient for most applications and these can be easily topped up with credit at most ATM machines or over the Internet without the need to remove the card from the unit. The default unit configuration uses AutoPIN feature which means the unit memorises the PIN number on start up and so if the SIM card is stolen, it will not work unless the PIN number is known.
2. Before you can receive any SMS text alarms, you must send a *subal* SMS text command to the unit. All commands sent must have your unit ID (and password if used) specified in SMS text message. Suppose your unit ID is *soc*, then text message *soc subal* must be sent first to subscribe to all alarms. For example, *soc hon* text message switches Heat ON. All pulse commands must specify a time delay eg. *soc pon 30s* text message switches on all outputs for 30 seconds.
3. To test the unit initially, just press the Test switch on the front panel and you should receive a text message on your mobile phone assuming you first sent the unit a *subal* command. You can also switch on the front panel red Led for say 30 seconds by sending the text message *soc sop 30s* to the unit (assuming your unit ID is *soc*).
4. When you are finished the self test, you should download the appropriate documents for connecting your sensors/actuators to the unit. Download from [www.watchlinkgsm.com/support](http://www.watchlinkgsm.com/support) the following documents ; *WL-2 connectors.pdf* or *WL-1B connectors.pdf* and *WL-2 applications.pdf* or *WL-1B applications.pdf*. Follow the examples and connector pin outs for connecting up your particular application. The physical I/O connector pin name should correspond with the program I/O pin name eg. Name *IN1* on connector sheet should correspond to Name *IN1* on program sheet. Logical Input and Logical Output refer to the I/O line that must be programmed in the Configurator program eg. Name *IN1* corresponds to *Input 11* on Configurator *Aliasing* setup.
5. To further program the unit in User Control Mode, you will have to download the Configurator software from Forum Nokia website (see *Resources* link on [www.watchlinkgsm.com/support](http://www.watchlinkgsm.com/support)). Using this Windows based GUI program, you can set up the unit with various text aliases for all inputs and outputs and also set up the analogue limit values for alarms and their sampling intervals. This program can also set up various M2M parameters such as GPRS settings, passwords, network security settings and operating modes for AT and GPS interfaces.
6. If the unit is not pre-programmed, then it is shipped with a default configuration. You can download from [www.watchlinkgsm.com/support](http://www.watchlinkgsm.com/support) the file *WL-2S default.pdf* to see this configuration. This configuration is also used for the WL-1B product. In the Configurator software, you can upload and store to your PC the default configuration for later programming/editing of other units. The default unit ID is *soc* and the default configuration file (.par) is located under the *WL-program.zip* folder.
7. If you need to develop your own custom applications, then you must write programs in Java and download them to the unit. This can be done using a serial PC cable or over the air (OTA) using the Configurator software. Please see *Resources* links on [www.watchlinkgsm.com/support](http://www.watchlinkgsm.com/support) to download the relevant Java IDE tools and user guide documents.
8. The WL-2 Pod comes with various optional interface connectors which can be used to interface to other external modules/boards/equipment. These can include GPS, Bluetooth modules, Audio headsets, Satellite Modems, PLC controllers, RF Transceivers and AT controlled devices. WatchLink GSM is actively developing a range of plug-in modules for the WL-2 Pod. However, if you need a customised Telemetry solution or you need to add wireless connectivity to your products, then contact us at [info@watchlinkgsm.com](mailto:info@watchlinkgsm.com)