

## **Omniguard MultiTech QuickCarrier USB-D User's Guide**

### **Summary**

This guide is for using your Omniguard with the MultiTech QuickCarrier USB-D wireless modem to send and receive text messages. This modem only works with Omniguard Cellular units with serial numbers C501000-C503799 and firmware V9.4b1 or later.

### **How It Works**

Connecting a wireless modem to the Omniguard allows it to send and receive text messages just like a regular wireless phone. The Omniguard can be configured to send alarm notices and daily status reports to up to two wireless phones. In addition it can respond to request for information from wireless phones and via email. If the Omniguard is programmed using a PC, it is also possible to send alarm and/or daily status reports to additional wireless phones and email addresses.

### **The Wireless Modem**

The MultiTech QuickCarrier USB-D wireless modem only works with Omniguard Cellular units with serial numbers C501000-C503799 and firmware V9.4b1 or later. If you do not have the latest firmware download Omniguard Communications from the Engineering Solutions web site to update.

In order to use the modem you will need to acquire a SIM card from a wireless provider. The SIM card contains the phone number and connection information for providers. The modem supports Verizon as well as wireless carriers using GSM such as AT&T and T-Mobile.

You have two options for setting up an account. You can establish a conventional wireless contract where you are billed for monthly service. You may be able to set up this type of account without even getting a phone, only a SIM card. If you must get a phone, the SIM card can easily be removed and installed in the modem. Choose a wireless plan that is best for the number of text messages you plan to send and receive from the Omniguard. You will not need any regular calling minutes since the modem will not make conventional phone calls.

Your second option is to use a prepaid wireless plan. Most providers offer plans with no contracts that allow text messaging. This is a good option if the number of messages will not be too high. You must monitor your account balance using online tools to make sure you do not run out during a job. Keep in mind that if you've set up the Omniguard to send text messages each time there is an alarm, you could send up to 576 messages per day.

### **Connecting**

Follow the instructions in the Quick Start Guide included with the modem to insert the SIM card in the modem.

Turn your Omniguard Cellular on and wait until the pressure is displayed. Touch the wireless icon in the lower right corner of the screen above the time. It may be showing a wireless tower with or without a question mark or exclamation mark or it may just be a

question mark. Proceed to the setup cell screen and turn the “Cell Modem” or “Network” to “Off”. Press the return/exit button to return to the main screen.

Plug your modem into the Omniguards USB port and wait. It can take a few minutes for the Omniguards to recognize the modem. The wireless icon in the lower right should change from a tower with an “X” across it to a tower with or without a question mark. Touch the icon and proceed to the setup screen. Set the “Cell Service Provider” to “Verizon” if you are using a Verizon SIM or “Other” if you are using any other provider. Press the return/exit button to return to the main screen. If the provider needs to be changed in the modem you will see a warning. Press the “Start” button to change the modem to match the SIM being used.

### **Authorizing**

If you did not purchase your modem directly from Engineering Solutions it will need to be authorized for use by the Omniguards. When your modem is connected and the Omniguards is turned on, you will be informed that the modem is “Not Authorized” along with a serial number. Contact Engineering Solutions, provide us with the serial number shown on the screen and we will give the passcode to authorize the modem. To enter the passcode into the Omniguards use the up and down arrow keys to change a digit and the right and left arrow keys to move between the digits. When all the digits have been entered press SAVE to authorize the modem. You will get the message “Modem ready”. The modem will now work with any compatible Omniguards.

### **Configuring**

Touch the wireless icon in the lower right corner of the screen above the time. On the cell setup screen two wireless phone numbers can be programmed directly into the Omniguards. A text message will be sent to each phone number when the Omniguards enters normal operation and when an alarm condition occurs. The minimum time between alarm text messages is limited to the Message Rate to prevent frequent messages if the unit is going in and out of the alarm state.

#### Normal Operation Message

```
JOB:  
 1234 Jacksonville Ave N  
NORMAL OP 12:59:16  
Reply with 0 for menu.  
Omniguards 4  
# G400000
```

#### Alarm Message

```
>> ALARM <<  
JOB:  
 1234 Jacksonville Ave N  
ALARM 1: +0.010" WC  
 12:59:07 +0.011" WC  
Reply with 0 for menu.  
Omniguards 4  
# G400000
```

Phone numbers programmed directly into the Omniguard will also receive a daily summary indicating how long the unit was in normal operation, the number of alarms and the total time the unit was in the alarm state. The summary report will be sent at 5:30pm each day unless a Notify List has been selected (see below).

#### Daily Summary Message

##### DAILY SUMMARY

##### JOB:

1234 Jacksonville Ave N

##### IN NORMAL OP:

6hr 46min

##### ALARMS:

12

##### IN ALARM:

59min 12sec

Reply with 0 for menu.

Omniguard 4

# G400000

In order to support more wireless phone numbers, the Omniguard can store up to four Notify Lists. These lists allow different phone numbers for alarm and normal operation notification and reports. They also allow the report time to be changed. Notify Lists can only be created and programmed into the Omniguard using the Omniguard Communications PC software available at [www.engsolinc.com](http://www.engsolinc.com). See the help that comes with the software for more information on setting up Notify Lists.

Note that while the software allows email addresses in the Notify Lists, they are not supported by the Omniguard when using the MultiTech QuickCarrier USB-D modem.

To configure and test the wireless modem –

1. Connect the modem to the Omniguard as described above.
2. Highlight WIRELESS MODEM using up and down keys and press SELECT to view or change the settings.
3. If desired, press up and down keys to change Cell # 1, the first of two wireless phone numbers that can be programmed on the Omniguard. Once the first digit of the number has been changed, use right and left keys to move to the other digits. To delete the phone number, set the first digit to a blank.
4. Press right and left keys to move to Cell # 2. Again use up and down keys to change the first digit of the phone number. Once the first digit of the number has been changed, use right and left keys to move to the other digits.
5. Press right and left keys to move to Notify. If you have programmed one or more Notify Lists into the Omniguard using the Omniguard Communications PC software, you can select on of them using “up/down”.
6. Press right and left keys to move to Test Modem. When “Test” is selected, pressing the SELECT key will cause a message to be sent to the Cell # 1 and Cell # 2 phone numbers as well as any numbers in the chosen Notify List.
7. Press SAVE to save the settings and return to the Main Menu.

Pressing the EXIT key will return you to the Main Menu without saving the updated settings.

### **Requesting Information**

It is also possible to request information from an Omniguard connected to a wireless modem. A text message or email is sent to the Omniguard which will reply with a report based on the content of the message. The reports include a daily summary, overall job summary, current status and settings. To get a complete list of reports the Omniguard can provide send a text message or email with a "0" (zero) in the body of the message.

Text messages sent to the Omniguard must be in the "short message" format and are sent to the phone number of the wireless modem.

Sample replies...

#### Menu- "0" or unknown message

Reply with 1, 2, 3 or 4 to get report:  
1-Current Status  
2-Daily Summary  
3-Entire Job  
4-Settings  
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#### Status- "1"

JOB:  
1234 Jacksonville Ave N  
STATUS:  
Waiting Pressure  
PRESSURE:  
0.000" WC  
Omniguard 4  
# G400000

#### Daily Summary- "2"

DAILY SUMMARY  
JOB:  
1234 Jacksonville Ave N  
IN NORMAL OP:  
6hr 46min  
ALARMS:  
12  
IN ALARM:  
59min 12sec  
Reply with 0 for menu.  
Omniguard 4  
# G400000

#### Job Summary-"3"

JOB SUMMARY  
JOB:  
1234 Jacksonville Ave N  
START:  
02-01-09 8:00  
IN NORMAL OP:  
23hr 46min  
ALARMS:  
12  
IN ALARM:  
59min 12sec  
Omniguard 4  
# G400000

Settings-“4”

SETTINGS  
MEM EST DAYS LEFT:  
100  
DATE & TIME:  
01-01 12:00  
ALARM 1:  
-0.025" WC  
ALARM 2:  
-0.050" WC  
PRINTER: Off  
Omniguard 4  
# G400000

**Tips**

- It is very helpful to make use of the Job capabilities of the Omniguard including the use of Job Names. When starting work at a new job site, touch “START JOB” at the bottom of the main screen on the Omniguard and enter a meaningful name for the job, such as the address. If “WAITING FOR PRESSURE” or some other message is displayed at the bottom of the screen, touch it to end the current job and then start a new one. This will make the reports easier to identify since they all use the Job Name. The Job Summary will also accurately reflect work done.