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CM712 Programming Example

In this example I will be using my CM712 to monitor my house in Florida while I am away. I need to know if it gets too hot or too humid because the air conditioner failed. To do this I will be using the temperature and humidity sensor that comes built in the CM712. I want the CM712 to send an alarm text to me as well as the home service.

I put the CM712 in the part of my house where the heat and or humidity will increase the quickest and I plug in the power supply and turn it on. As it powers up I watch the display to make sure the CM712 registers on the cell network. Signal strength bars will be shown in the lower right hand portion of the display.

Now that the CM712 is up and registered on the cell network I can program it. This only has to be done one time unless I want to make changes. All settings are stored in permanent memory so there is no need to worry if the power fails and the backup batteries totally discharge.

Let's Program the CM712

First, I want to set the temperature upper limit to 80 degrees and the humidity upper limit to 65%. I want to set the time delay for both to 30 minutes because I want to be sure that the temperature or humidity is really out of limit before getting an alarm text. (Please note that the values are for example only!)

To program the limits I send the following text

```
AU: 80
HU: 65
AT:30
HT:30
```

I wait until the CM712 responds with either successfully programmed or Error. If there is an error try again. Note that one command can be sent at a time.

Second, I need to program the two cell phone numbers that I want alarm texts to go to.

To program the phone numbers send the following text

```
P1: 1235551212
P2: 4565551212
```

Wait till the CM712 responds.

Third, I want to know if the power goes out for one hour in my house.

To program the power out time, send the following text

```
PT: 60
```

Wait till the CM712 responds.

Fourth, I would like to get a status text everyday at 1:00 PM just to make sure everything is OK.
Send the following text

ST: 13

13 is military time for 1:00 PM. Wait till the CM712 responds.

Now that the the CM712 is programmed I must verify the settings in the CM712. To do this I send the following commands one at a time and wait for the response. I verify that the response match the settings I send the three texts below to the CM712.

Phones
Limits
Delays

If all the settings are correct then it is time to test the system.

Send a ? to verify temperature and humidity readings

Temporarily set the upper limit to 40 to force an alarm condition. The CM712 will send an alarm text after the 30 minutes to the two programmed phone numbers. If you want to speed this up, set the time delay to 1 minute.

Reprogram the upper limit to 80. The CM712 will send a text to the two programmed phone numbers that the temperature is back within limits.

That's it. The CM712 is programmed and monitoring. Just be sure to leave it on.