



## What is new with Version 6

## What is the difference between GC0321, GC0641 and GC1281?

The long awaited release of V6.00 is finally here!

### So what has changed?

#### Dynamic memory

In V5, a predefined amount of setup memory was allocated for each type of setup data (such as phone numbers, messages etc). If your setup did not use the available space for its intended purpose, it went unused and was therefore wasted. V6 solves this problem. If you want 1 phone number, but 50 messages, you can! The setup memory is allocated dynamically - no static memory boundaries as in V5 or V4. Certain limitations are imposed, however. A maximum of 512 phone numbers are allowed, maximum 128 messages (each max 128 characters).

#### Usability and features

We have gone further, and have included a host of improvements to the software and firmware, greatly enhancing the usability of the software, and adding some powerful features.

#### New hardware platform

The 048B platform has become constrained with all the features we have been adding to it, and we have reached a ceiling in terms of what we are able to add to it. Of course we could not leave things like that. We opened the hood, we wheeled ourselves under the chassis, and we ripped out the old 1300 engine, and installed a brand new V8. Internally, the new Commanders now run twice as fast, and have 4 times the memory available, allowing us to add a host of cool new features and additions in the near future.

### To mention but a few improvements:

- Numbers and messages can be defined on the fly. No more having to exit the behaviour setup due to forgetting to define a message or phone number.
- The "IF's" and "THEN's" are grouped into logical groups rather than an "IF" or "THEN" for every different option. For example, in V5 there were separate THEN options for "THEN activate output for 'B' seconds" ; "THEN activate output for 'B' minutes"; "Then active output (and leave activated)", etc. In V6, there is a single entry named "THEN change output". The different options for changing the output is then configured with radio buttons, tick-boxes, etc.
- On the behaviour statements page, you can right-click, presenting you with options to manipulate the behaviour statements. You can insert, move, swop, delete and rename statements this way!!!
- I/O constraints. Similar to Time Constraints in V5, IO constraints allows the user to constrain a statement to specific IO conditions. In other words, before a given statement will be allowed to trigger, a certain IO requirement must be met (In addition to the other requirements for that statement.) An example could be a statement that would trigger on an incoming message. One could add an IO constraint to the statement so that it would only trigger when the correct incoming message is received, AND if input 1 and output 3 is active. Note that I/O constraints are not available on the GC0321 version.
- Hold Times. For temperature, power failure/restore and analog statements, a time can be specified that the trigger condition must be met constantly before the statement will be allowed to trigger. This helps to eliminate false triggers due to noise levels or a reading hovering around the trigger point.
- In V5, there were two types of messages defined. One was "messages", referring to outgoing messages and the other was "trigger strings", referring to incoming messages. In V6, we have merged these two data types, and we now simply refer to them as "messages".

## So what are the differences between the new models exactly?

### GC0321

This is the basic model. It can take up to 32 behaviour statements (from there the "032" in the name). It provides a total of 2048 bytes of (dynamic) setup memory. It does not support DTMF or GPRS features, and it is expandable upto a maximum of 12 inputs and 12 outputs.

### GC0641

We call this one the advanced model. It can take up to 64 behaviour statements. It provides a total of 4096 bytes of (dynamic) setup memory. It supports DTMF and GPRS features, and it is expandable upto a maximum of 22 inputs and 22 outputs.

### GC1281

The big brother. The real McCoy. The Professional.

This unit provides (you guessed it) 128 statements, and a total of 8192 bytes of dynamic setup memory. It supports everything that you find in the '0641, but it also has dual SIM-card functionality. Dual SIM provides network redundancy. You install two SIMcards. One is primary and one is secondary. If the one network dies, the commander can use the second network. The GC1281 is due to be released in Q4 2010.

## What are the GPRS functionality that is referred to above?

GPRS functionality will (among other things) allow real-time logging of information to a web server. These features will be released on the '0641 model by Q4 2010.

## So what about my older commander?

The older commanders (048A and 048B) will not be able to run V6 firmware/software. This is because we have redeveloped the new commanders as a totally new platform. They may look familiar on the outside, but under the hood, everything has been changed. Upside is that we do provide upgrade options for you to upgrade your old unit to any of the new products. Also, we continue to support the older commanders in full.

### Feature Matrix

#### Base units

Code	GB0101	GC0321	GC0641	GC1281	GC048B
SOFTWARE	none	V6	V6	V6	V5
Onboard Inputs	1	2	2	2	2
Onboard Outputs	1	2	2	2	2
Max Extendable I/O	none	12/12	22/22	32/32	32/32
No. of Statements	n/a	32	64	128	46
Setup Memory	n/a	2kb	4kb	8kb	NA
0-100 ° C Probes supported	0	2	2	2	2
0-10V Analogue Inputs	1	1	1	1	1
Battery/Power Monitor	YES	YES	YES	YES	YES
USB Configuration	NO	YES	YES	YES	YES
DTMF Decoder	NO	NO	YES	YES	YES
SIM Card Slots	1	1	1	2	1
IO Constraints supported	NO	NO	YES	YES	NO
Variables Supported	NO	NO	YES	YES	YES
Future GPRS Features	NO	NO	YES	YES	NO
Max Phone numbers	16	250	512	512	208
Max messages	1	64	128	128	16
Dimensions (mm)	127x73x28	148x86x28	148x86x28	148x86x28	148x86x28