

C-Bus Auxiliaries

Note: C-Bus Auxiliaries are only available in Type 2 (CE) Control Module Hardware and V4.00 Firmware or later.

A Clipsal C-BUS PC interface can be connected to a serial UART Port on the Control Module. The Control Module must be fitted with 512k (4MBit) Memory expansion which currently allows up to 64 C-Bus Auxiliaries to be defined, depending on the memory configuration chosen.

The connection between the UART Port and C-Bus PC interface is made using the C-Bus Interface Cable, Part Number 993013.

A “C-Bus” Comms Task must be programmed to establish communications between the Control Module and the C-Bus PC interface.
*See Comms Task programming, MENU, 7, 3, 1
and Comms Task Formats: Comms 23 - C-Bus.*

C-Bus Auxiliaries can provide the following functions:-

- 1. Cause nominated C-Bus output devices to turn on, turn off, or ramp on/off to a specified level as defined 3000/Access 4000 Auxiliaries turn on or off.
- 2. Update the state of defined 3000/Access 4000 Auxiliaries as C-Bus functions turn C-Bus output devices on or off within the C-Bus network.
- 3. Save C-Bus activity to the 3000/Access 4000 Review Memory.
- 4. Allow two separate applications to be controlled simultaneously. e.g. Lighting and Heating.

Each C-Bus Entry allows a single 3000/Access 4000 Auxiliary to be defined and programmed as to how it will operate in conjunction with the C-Bus system.

CBus Entry
to alter: CB001

This screen allows a C-Bus Entry to be selected for programming.

CB001 2.....AR
Opts -> nnnnnnnn

This screen allows various C-Bus options to be selected:

2 2nd Application.

If set to “Y”es, the 2nd Application option specifies that this Auxiliary is to be associated with the 2nd Application programmed in C-Bus Comms Task programming. If set to “N”o, the Auxiliary will be associated with the 1st Application.

A Alarm feedback.

If set to "Y"es, the Alarm feedback option allows the state of the Auxiliary defined below to be updated by associated C-Bus activity. Associated C-Bus activity will be those C-Bus commands that have the same "Application" and "On/Off Group Address" as defined in this C-Bus Entry.

-An ON command with the same "On Group Address" will turn the Auxiliary On.
-An OFF command with the same "Off Group Address" will turn the Auxiliary Off.

-A RAMP command with the same "On Group Address" will turn the Auxiliary Off if the final Ramp level is below the "Threshold" defined below.

-A RAMP command with the same "On Group Address" will turn the Auxiliary On if the final Ramp level is equal to, or above, the "Threshold" defined below.

For the Alarm Feedback option to function:

- 1) The "Review" option in the C-Bus Comms Task options screen must be set to Yes (MENU, 7, 3, 1).
- 2) The "Save to Review" option in Auxiliary Timer programming (MENU, 5, 5) must be set to Yes for the Auxiliary defined as the C-Bus Auxiliary in the next screen.

(The factory default for this option is "Yes")

Note that when the Auxiliary is turned On or Off via C-Bus activity, no C-Bus commands will be output as a result of that action.

R Re-send.

If set to "Y"es, the Re-send option causes the On/Off commands assigned to this C-Bus Entry to be sent even if the Auxiliary does not change state. e.g. If an Auxiliary is already On and an 3000/Access 4000 operation attempts to turn on the Auxiliary again, the On command will be re-sent to the C-Bus network.

CB001 Auxiliary
 — :X

This screen allows the Installer to select which Auxiliary is going to be associated with this C-Bus Entry. Any Auxiliary from within the 3000/4000 system can be chosen.

CB001 On Cmd
NONE

This screen defines which C-Bus operation is to be initiated when the Auxiliary defined above turns On:

None

No C-Bus command will be sent.

ON

A C-Bus ON command will be sent to the "On Group Address" defined below.

OFF

A C-Bus OFF command will be sent to the "On Group Address" defined below.

Ramp Period. (16 available)

A C-Bus RAMP command for the "ramp period" selected will be sent to the "On Group Address" defined below. The ramp periods available are:

0 s, 4 s, 8 s, 12 s, 20 s, 30 s, 40 s, 1 m,
1.5 m, 2 m, 3 m, 5 m, 7 m, 10 m, 15 m, 17 m.

Note that the "On Ramp Level" below must also be set.

CB001 On Group
Address: 000

This screen sets the C-Bus Group Address that will be operated by the "On Command" defined above. The address is programmable in decimal digits from 000 to 255.

**CB001 On Ramp
Level: 000**

This screen is required if a RAMP command has been selected from the “On command” screen above. The final level for the RAMP command can be programmed in decimal digits from 000 to 255.
e.g If a Ramp command of 20s is selected above, and an On Ramp Level of 64 is programmed, the resultant command will cause the C-Bus Group Address defined to ramp to 25% of full voltage over 20 seconds.

**CB001 Off Cmd
NONE**

**CB001 Off Group
Address: 000**

**CB001 Off Ramp
Level: 000**

These screens define:
-Which C-Bus operation is to be initiated,
-Which “Off Group Address” will be operated,
-And the desired “Off Ramp Level” (if a RAMP command is selected) when the Auxiliary defined above turns Off.
These screens are programmed in exactly the same manner as the “On Command” screens above.

**CB001 Ramp
Threshold: 000**

This screen is required if the “A”larm feedback option has been selected earlier. The Ramp Threshold setting is used to determine whether the Auxiliary should be turned On or Off when a RAMP command is received from the C-Bus network.
-If the final ramp level of the RAMP command is lower than this threshold, the Auxiliary will turn Off.
-If the final ramp level of the RAMP command is equal to, or higher than, this threshold, the Auxiliary will turn On.

