

Myostat Motion Control Inc .
Cool Muscle 1
RT3 Application Note

Cool Muscle Language Notes for Outputs



1. Outputs

1. Manually setting and output

This application example shows how we can manually switch an output on and off. The CM1 has two outputs. These outputs can be used for serial communication. In this case because we are using OUT1 for communication so we are going to manually switch OUT2.

The 'O' and 'F' CML commands are used to switch the output. 'O' switches the output on and 'F' switches the output off. The output also needs to be configured for general use. There are other uses for the output such as an alarm output or inposition output. K34 sets the output functionality. If the output by default needs to be inverted this can be changed in K33. Note that if the motor detects the serial port on OUT1 the K33 and K34 functions are ignored.

In K33 and K34 the inputs are set up as: left most digit → OUT2, right most digit → OUT1.

This CML can be run in CWLite. We can load the K33 and K34 parameters either together on the edit window or individually in the single line command. Then O2 and F2 commands we send through the single line command when we want to switch them.

CML Code Used:

K33=00 → outputs are set to normally open
K34=41 → set OUT2 to 4. This sets the output to use O2 and F2. Leave OUT1 at default
O2 → set OUT2 on.
F2 → set OUT2 off.

Example CML Code:

```
/set the output setup registers  
/set to normally open  
K33=00  
/set OUT2 to manual use  
K34=41  
  
/switch the output on  
O2  
  
/switch the output off  
F2
```