

## DEFAULT EEPROM VALUES.

The screenshot shows the 'Motor Controller Write EEPROM.vi Front Panel' with the following default values:

Parameter	Value
COM port	1
RS-485 addr.	0
Close port after action	Yes (Yellow button)
COM port out	1

**EEPROM**

Parameter	Value
N bits	13
Encoder counting edges	4
dt (s)	0.002
Encoder PPR	256
Kp (/rpm)	0.002
Final drive ratio (X:1)	4.07143
Ti (s)	0.015
Current zero offset (A)	0
Td (s)	0
RS-485 address	1
N bits_soft	15
RS-485 baud rate	500000
dt_soft (s)	0.002
Data output period (us)	10000
Kp_soft (/rpm)	0.0005
RPM setpoint	0
Ti_soft (s)	2.5
USB streaming enabled	Yes (Green button)
Td_soft (s)	0
Operating mode	SLEEP
Running mode	SOFT

**Error out**

status	code
Yes (Green button)	0

**source**

Empty text area for error source.

The RS-485 address will need to be set according to the individual unit.

The current zero offset will need to be measured and set for the individual unit. This can be done simply by placing the drive into coast or sleep mode and taking a time-average of the current over sufficient time after warm-up.

The default PID coefficients are nominal and each unit + motor + load combination will have its own optimal set, again to be determined experimentally under operating conditions.