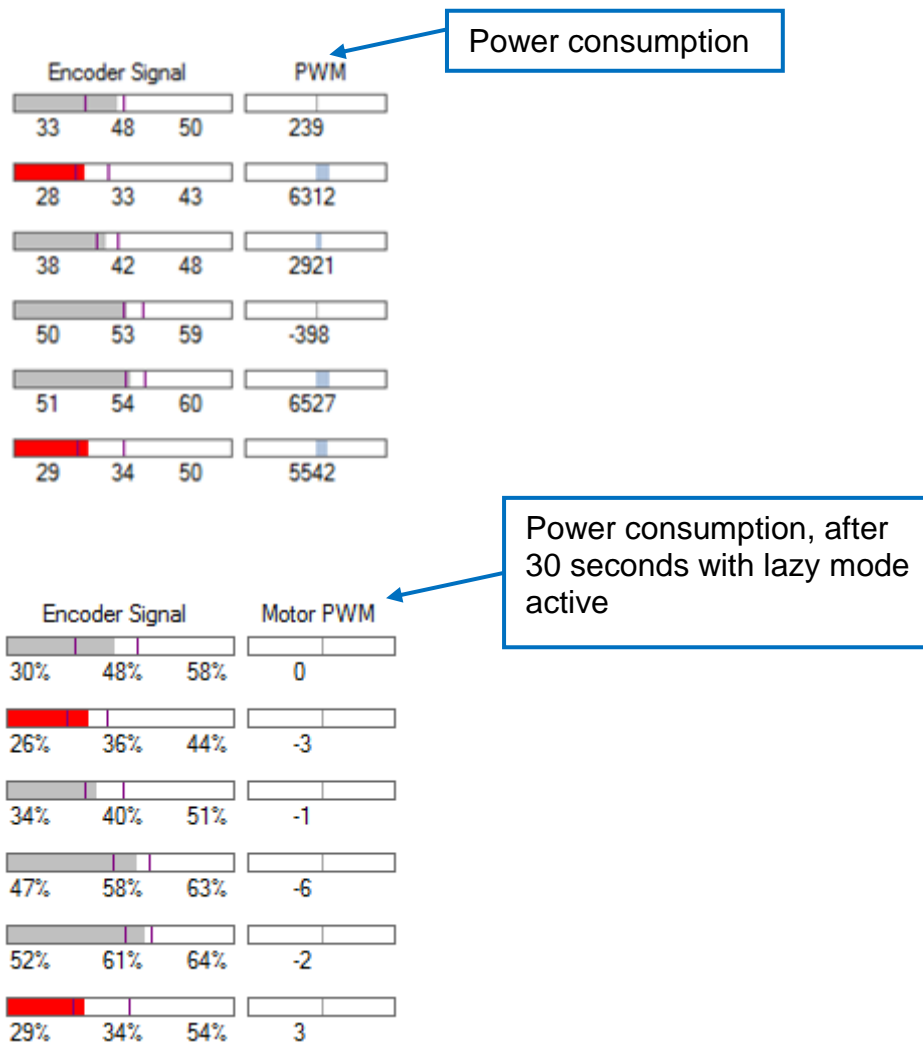


Lazy mode for Xtreme	Date 06/03/17	Issue- 1	Author- Chris Walkley
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'Lazy mode' is a term given to the function of the Xtreme controller, whereby the linear motor within a strut will change position slightly to decrease the amount of current being drawn.

After 30 seconds of no activity, the control will adjust itself to reduce power consumption.

Within the dash board, PWM represents the power



Lazy mode is available with GCTAR.GZ version 32 onwards, however existing units upgraded to 32 will need additional lines of data entered into the machines .ini file, machines from March 2017 will be already enabled.

To enable the mode, open the .ini file using WinScp facility. Double click on the cfg1\*\*\*\*\*.ini file to open in txt editor. Enter 4 lines labelled below under Klfade=0.0, also change this line to read Klfade=2

```
[VelocityController]
Kv=-150
KI=-30
Klfade=2
NumIdleCounts=30000
IdleOnPosTol=0.001
IdleOffPosTol=0.0000001
MaxIdleSlip=1.0
EncSinOffsets=-71:-25:-55:-4:-22:-89
EncCosOffsets=0:10:-13:1:-18:7
EncGainRatio=0.9764:0.9633:0.9913:1.0022:1.0063:0.9696
EncSinPhase=-0.0069:0.0013:-0.0281:0.0012:-0.0199:0.0088
EncOneDividedCosPhase=1:1:1.0004:1:1.0002:1
```

Edit Klfade=0 to Klfade=2

Add these lines exactly as shown. Under Klfade=2

Save changes, exit WinSCP, switch off the top controller to switch on again to activate changes.