

## CONTROLLER 2

AXIS	STAGE	STEPPER MOTOR RELATED COMMANDS									SPEED					LIMITS		MISC.	
		KS	LC	MT	QS	YA	YB	YC	YR	YS	AC	DC	SP	HV	MO	FL	BL	ER	OE
2A	GRATING TILT	1.313	NA	-2.5	0	1	200	NA	NA	NA	TBD	TBD	TBD(512)	256(???)	0	TBD	TBD	-	-
2B	DEWAR FOCUS	1.313	NA	-2.5	0	1	200	NA	NA	NA	TBD	TBD	TBD(512)	256(???)	0	TBD	TBD	-	-
2C	(UNASSIGNED)	1.313	NA	-2.5	0	1	200	NA	NA	NA	TBD	TBD	TBD(512)	256(???)	0	TBD	TBD	-	-
2D	(UNASSIGNED)	1.313	NA	-2.5	0	1	200	NA	NA	NA	TBD	TBD	TBD(512)	256(???)	0	TBD	TBD	-	-
GALIL DEFAULT:		1.313	0	1	0	2	200	4000	0	0	256000	256000	25000	256	0	2147483647	-214783648	16384	0

PARAMETER	VALUE
DH	1
IA	192,168,11,2
SM	???,???,???,???
IK	0
CN	1, 1
CO	12
OP	..\$FFFF

KS (STEP MOTOR SMOOTHING) SMOOTHES MOTION BUT INCREASES MOTION TIME  
 MT(MOTOR TYPE) SET -2.0 FOR STEPPERS  
 YA (STEP DRIVE RESOLUTION) DETERMINES FULL (1), HALF (2), 1/4 (4) STEP RESOLUTION  
 YB (STEP MOTOR RESOLUTION) STEPS PER REVOLUTION FOR MAINTENANCE MODE  
 HV (HOMING VELOCITY) SPEED FOR FINAL SPEED IN FIND INDEX FINAL MOVE

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LC (LOW CURRENT) NOT APPLICABLE FOR HAMILTON SPECTROGRAPH  
 QS (ERROR MAGNITUDE) NOT APPLICABLE FOR HAMILTON SPECTROGRAPH  
 YC (ENCODER RESOLUTION) NOT APPLICABLE FOR HAMILTON SPECTROGRAPH  
 YR (ERROR CORRECTION) NOT APPLICABLE FOR HAMILTON SPECTROGRAPH  
 YS (STEP POSITION MAINTENANCE MODE ENABLE, STATUS) NOT APPLICABLE

NOTES: USE MC (MOTION COMPLETE) WITH STEPPERS DUE TO MOTION PROFILER  
 AM (AFTER MOTION) DOES NOT WAIT FOR PROFILER  
 MT MUST BE SET BEFORE AG COMMAND IS ISSUED.

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		PROGRAMMING NOTES HAMILTON SPECTROGRAPH II	
DES'N BY: B. Alcott	ORIGIN DATE: 10-22-09	DWG. NO.	NUM. 2 OF 2
Last SN	MODIFY DATE: 11-01-10	<b>EL-4009</b>	REV. <b>A</b>
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 11-01-10 SWAPPED GRATING TILT & DEWAR FOCUS WITH GUIDE CAMERA FOCUS AND FILTER STAGES TO ALLOW USE OF CN1,-1 ON HARDY AND CN1,1 ON LAUREL.